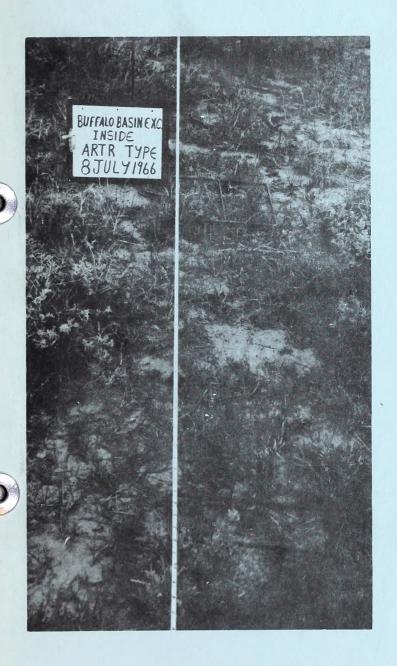


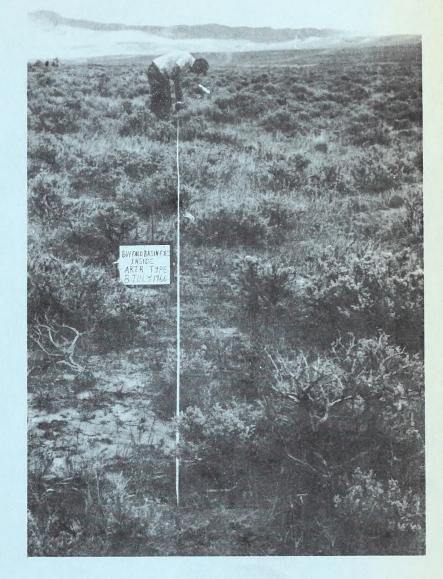
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Cooperative Research Report to the Bureau of Land Management

1965-1966 RESULTS





EXCLOSURE STUDIES WITH TRANSECTS
OF PERMANENT PLOTS

ARID LAND ECOLOGY RESEARCH

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EXCLOSURE STUDY WITH TRANSECTS OF PERMANENT PLOTS1

by

Herbert G. Fisser²

Introduction

The study of vegetation changes on sites with fenced exclosures, by use of transects of permanent plots was initiated in 1965 as a Wyoming Agricultural Experiment Station Cooperative program with the Bureau of Land Management. The study site exclosures were provided by the B.L.M. and are located in the Worland and Casper districts. A general description of the work program and listing of the study areas was incorporated in the cooperative research program agreement entitled "Arid Land Ecology".

PROCEDURES

Transects of permanent plots were located both inside and outside the exclosures. Wherever possible these paired transects were located in all vegetation types encompassed by the exclosures. In some instances cultural treatments such as sagebrush control were conducted and permanent plot transects were located to evaluate the treated and nontreated sites. A complete list of exclosures studied under the permanent plot transect program is presented in Table 1. and includes a listing of transects by treatments, sites and vegetation type characteristics.

For a measure of precipitation, gauges were installed at most of the exclosures. The gauges were cans 14" in height with a diameter (approximately 3") such that one inch of precipitation was equal to 100 milliliters of water. To record the precipitation the water in the gauge was poured into a 100 ml. graduated cylinder and converted directly to inches of precipitation. The gauges were read four times a year--April 15, June 30, August 31 and October 15. Moisture loss due to evaporation was eliminated by addition of 20 ml. of light oil each time a gauge was read. During the fall and winter periods anti-freeze (either 100 or 200 ml. depending on location) was added to the gauges.

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Transect establishment

The following detailed description of the establishment of the permanent transects of 20 plots, each 1' x 1' square, is provided to enable others to understand the procedures for continued collection of vegetation data with a minimum amount of error caused by worker variation.

The first step in establishing the transects requires the selection of a homogeneous area with little variation in site characteristics and general vegetation composition. The area selected should preferably be at least 100 ft. in length. If this distance is not feasible, smaller sites may be selected and the transect line bent to fit the area (See map of Grass Creek Divide Exclosure).

A permanent rod $(3/8" \times 2")$ concrete rebar) is driven into the ground so that about 6" protrudes above the soil surface. This is designated the "0" end of the transect. A 100' tape is attached to the rod and laid out to form the transect line. Another permanent rod is driven into the ground at a distance of 6"-12" beyond the 100' point of the tape.

Large spikes (16d box) are then pushed into the ground at the two corners of each of the 20 plot locations along the tape. The spikes are located at the following distances along the tape - 4' and 5', 9' and 10', 14' and 15', --, 94' and 95', 99' and 100'. With the tape in place these are easily relocatable for accurate placement of the square foot from during subsequent years of data collection.

Data collection

For collection of vegetation data the plot frame is laid down on the right hand side of the tape (facing from the "0" end to the "100" end) with two corners of the frame directly over the permanent spikes. On sites with tall shrubs slender rods should be used as guides to insure placement of the plot corners directly above the location spikes.

Quantitative values for each species present within a plot frame are based on growth form. Aerial shrub, half-shrub, and tree values are given in terms of canopy cover - the percent value of the plot surface which is intercepted by a vertical projection from the plant crown. These percentage values of shrub and tree canopy are classed as overstory and do not preclude the presence of understory species beneath the aerial portions of these plants.

Percentage area values of herbaceous understory species are presented as basal cover, a combination of the concepts of basal area and foliage cover. The concept of basal cover has been developed to recognize that the presence of one plant precludes the presence of another in the area in which it enters the soil surface as well as an area surrounding it. Basal cover is thus, often greater than the basal area of a plant but smaller than the foliage cover because an area of foliage cover, especially in the arid and semi-arid regions of the western United States, does not

oden sukana hino ka badas kan cumu e Mikana puldkesner sen al canadab puldu made direction endicate the country of the fire end of the order and and the second and the seco Delmeraiq en asizone vertirendo antibioned do alleva de activa de preclude the presence of other plants within its boundary. The application of the basal cover concept therefore results in quantative values of abundance more closely related to plant influence within a community than either basal area or foliage cover. Basal cover values represent thus, the area in which no other plants are able to establish and survive. This area includes both the area occupied by the base at the ground surface as well as the area beyond in which no others are able to grow because of competition for space, moisture and root and aerial volume.

Understory species with a prostrate growth form are evaluated in terms of the percentage plot area occupied by them to the exclusion of other plants including both root area and stem and leaf area which limits the presence of other plants. In some instances other plants are able to grow through the cover and openings in the mat of a prostrate species. This value is deducted from the total area value of the prostrate plant. In other instances bare ground and openings covered with litter may be present within the perimeter of prostrate individuals. If these are large and obviously able to support plant growth, they are deducted from the total area value. Small openings which are unable to support plant growth due to the presence and influence of the prostrate species are included in the total area value.

Upright herbaceous species which usually grow by single stem are evaluated on the basis of numbers of individuals and diameter of stems. The total cross section of the stems of all plants within the plot boundary is determined as a percentage of the total plot area. Little allowance is given to area not actually occupied by the stems at the ground surface, especially with respect to annual forbs. In dense stands of perennial species in which the nearness of the stems to one another precludes the presence of other species by competition for moisture, root space and aerial foliage space, the percentage area value is increased to allow for the competitive presence of the dense stand which tends to limit the possibility of the presence of other plants. The increased percentage area value is seldom greater than ten percent of the actual basal area of the stems at the soil surface.

Basal cover values of upright herbaceous species which grow in a typical bunch form are determined on the basis of the percentage area of a plot utilized by them to the exclusion of any other plants. Included in this concept are both basal area and the basal cover areas which preclude the presence of other plants because of spatial competition factors. Increased area values may often be as great as fifty percent of the basal area.

RESULTS

Summarized data from 1965 and 1966 are presented in alphalbetical order by exclosure name on the latter pages of this report. Plant species are listed by four letter code symbols. The first two letters

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• Entereditorique de Conference especialista en édificación de la bijación de consecuence esta del consecuencia de la consecuencia de consecuencia de consecuencia de la consecuencia de la consecuencia esta de la consecuencia del la consecuencia de la consecuencia de la consecuencia de la consecuencia del la consec are taken from the generic name and the third and fourth letters from the species name. In case of code duplication number digits are added immediately after the code letters. A list of all plants encountered in the permanent plot transect work program with common and scientific names with life form and longevity characteristics preceeds the exclosures data pages. No attempthas been made to analyze vegetation conditions or changes because of the treatments. Insufficient time has passed for significant responses.

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Table 1. List of exclosures with transect description and plot of establishment of permanent plot transects.

(20 - 1' x 1' plots per transect).

Code No.	Exclosure Name	County	Transect Description and Establishment Year
0101	Arminto	Natrona	Inside native, Inside furrowed, Outside furrowed - 1965
1511	Big Bend	Hot Springs	Inside, Outside - 1966
0916	Big Flat	Big Horn	Inside, Outside - 1965
2011	Big Trails	Washakie	Inside "A", Outside "A" (est. '65); Inside "B", Outside "B" (est. '66)
	Black Mt.	Big Horn	to be established in 1967
1101	Buffalo Basin	Park	Inside grass, Outside grass, Inside ARTR Outside ARTR - 1966
2012	Dead Indian	Washakie	Inside furrowed, Outside furrowed - 1965
0102	Donlin	Natrona	Inside, Outside - 1965
2013	East Ridge	Washakie	ARTR Inside, ARTR Outside, ATNO Inside, ATNO Outside - 1965
2014	Emgee	Washakie	Inside spray, Outside spray, Inside nonspray Outside nonspray - 1965
1512	Grass Creek Divide	Hot Springs	All transects established in 1966 Type A - Meadow Grass - Inside, Outside Type B - Wet Erosion Site - Inside, Outside Type C - Sagebrush Grass - Inside spray, Outside spray (sprayed in 1962). Inside non- spray, Outside nonspray. Type D - Rocky Forb Grass - Inside, Outside Type E - Meadow Sedge Grass - Inside, Outside
0917	Horse Haven	Big Horn	Inside native, Outside native, Inside spreader, Outside spreader - 1965
	Kane Seed	Big Horn	to be established in 1967
	Lower Enos Creek	Hot Springs	to be established in 1967
0103	Mud Springs	Natrona	Inside furrowed, Outside furrowed, Inside native, Outside native - 1965

Inside native, loaide furrowed, Outside furrowed - 1965		
Inside, Outside - 1966		
Inside, Octobia - 1965		
Inside "A", Outside "A" (est. '65); Inmide "B", Outside "2" (est. '65)		
to be established in 1967		
Inside grass, Outside grass, Inside ARIR. Outside ARIR - 1955		
Inside ferroved, Outside furrowed - 1975		
ARTE Inside, ARTE Outside, ATMO Inside, ATMO Outside - 1965		
Inside apray, Outside apray, Inside nonspray Outside consprint - 1965		
All remarces established in 1966 Type A - Mondow Grass - Inside, Guraide Type B - Mar Brosion Sire - Inside, Outside Type E - Sogebrush Grass - Inside spray, Guteide soray (sprayed in 1962), Inside non- soray, Guteide nonspray. Type B - Booky Torb Grass - Inside, Guteide Type B - Mondow Sodge Grass - Inside, Outside		
Inside marive, fluiside mative, Inside aprender. Oureids aprender - 1965		
to be exceptiahed in 1967		
Inside furrowed, Outside furrowed, Inside metive, Outside native - 1965		

Table 1. (cont.)

0104	Owl Draw	Natrona	All transects established in 1965 Transect #1 - Inside Deer Exc., ARNO type, East Exposure Transect #2 - Outside Deer Exc., ARNO type, East Exposure Transect #3 - Inside Deer Exc., JUOS-ARNO type,
			NE Exposure Transect #4 - Outside Deer Exc., JUOS-ARNO type NE Exposure
			Transect #5 - Inside Deer Exc., ARTR type, North Exposure
			Transect #6 - Inside Deer Exc., ARNO type, North Exposure
A 194			Transect #7 - Outside Stock Exc., ARNO-JUOS type, North Exposure
			Transect #8 - Inside Stock Exc., ARNO type, North
And I			Exposure Transect #9 - Inside Stock Exc., ARNO-JUOS type,
le in the second			NW Exposure Transect #10 - Outside Stock Exc., ARTR type, NW Exposure
0105	Poison Spider	Natrona	Inside, Outside - 1965
1507	Rankin Basin	Hot Springs	Inside, Outside - 1965
2015	South Butte	Washakie	Inside spray, Outside spray - 1966
0106	Stinking Creek	Natrona	Inside spray, Inside nonspray, Outside nonspray - 1965
1508	Upper Enos Creek	Hot Springs	Inside Spray, Outside spray - 1965
1509	Upper Grass Creek	Hot Springs	Inside spray, Outside spray - 1965
1510	Upper Left Hand Creek	Hot Springs	Inside, Outside - 1965
2016	Worland Cattle Co.	Washakie	Inside, Outside - 1966

	Transect #1 - Inside Deer Ixc., ARNO type, East
	Transect #2 - Outside Neer Exc., ARW type, Enst
	Transact #4 - Outside Deer Ere., JUDS-ARKO rype
	Transect #6 - Inside Beer Sxc., ABNG type, North
	Transect #8 - Inside Stock Exc., ARNO type, North
	Inside apray, Inside monapray, Outside
Upper Encs	Inside Spray, Outside spray - 1965

LIST OF PLANTS OCCURRING ON 1' x 1' PLOT TRANSECTS

Code	Genus - Species	Common	Life Form	Longevity
ACLA	Achillea lanulosa	V	Faul	Damanud a 1
AGCR		Yarrow	Forb	Perennial
	Agropyron cristatum	Crested wheatgrass	Grass	Perennial
AGEX	Agrostis exarata	Spike redtop	Grass	Perennial
AGGL	Agoseris glauca	Pale agoseris	Forb	Perennial
AGR 2	Agropyron spp.	Wheatgrass	Grass	Perennial
	Agrostis spp.	Redtops	Grass	Perennial
AGSC	Agrostis scabra	Ticklegrass	Grass	Perennial
AGSM AGSP	Agropyron smithii	Western wheatgrass	Grass	Perennial
	Agropyron spicatum	Bluebunch wheatgrass	Grass	Perennial
ALTE	Allium textile	Textile onion	Forb	Perennial
ANDI	Antennaria dimorpha	Low pussytoe	Forb	Perennial
ANOC	Androsace occidentalis	Fairy candelabra	Forb	Annual
ANRO	Antennaria rosea	Rose pussytoes	Forb	Perennial
ARCO	Arenaria congesta	Ballhead sandwort	Forb	Perennial
ARCO2	Arnica cordifolia	Heartleaf arnica	Forb	Perennial
ARFR	Artemisia frigida	Fringed sagewort	Half-shrub	Perennial
ARFU	Arnica fulgens	Arnica	Forb	Perennial
ARHO	Arenaria hookeri	Hooker sandwort	Forb	Perennial
ARHO 2	Arabis holboellii	Holboell rockcress	Forb	Perennial
ARLO	Arnica longifolia	Arnica	Forb	Perennial
ARNO	Artemisia nova	Black sagebrush	Shrub	Perennial
ARPE	Artemisia pedatifida	Brown sagebrush	Half-shrub	Perennial
ARSP	Artemisia spinescens	Bud sagebrush	Half-shrub	Perennial
ARTR	Artemisia tridentata	Big sagebrush	Shrub	Perennial
ARTR2	Artemisia tripartita	Threetip sagebrush	Shrub	Perennial
ASGR	Astragalus grayi	Gray's milkvetch	Forb	Perennial
ASMI	Astragalus missouriensis	Missouri milkvetch	Forb	Perennial
ASMI2	Astragalus miser	Timber milkvetch	Forb	Perennial
ASPU	Astragalus purshii	Pursh loco	Forb	Perennial
ASSP	Astragalus spatulatus	Tufted milkvetch	Forb	Perennial
ATAR	Atriplex argentea	Silverscale saltbush	Forb	Annua1
ATCA	Atriplex canescens	Four wing saltbush	Shrub	Perennial
ATCO	Atriplex confertifolia	Shadscale	Shrub	Perennial
ATNU	Atriplex nuttallii	Nuttall saltbush	Half-shrub	Perennial
BASA	Balsamorhiza sagittata	Arrowleaf balsamroot	Forb	Perennial
BOGR	Bouteloua gracilis	Blue grama	Grass	Perennial
BRJA	Bromus japanicus	Japanese chess	Grass	Annual
BRTE	Bromus tectorum	Cheatgrass	Grass	Annua1
CAAN	Castilleja angustifolia	Narrow-leaf Indian		
		paintbrush	Forb	Perennial
CAEL	Carex eleocharis	Needleleaf sedge	Sedge	Perennial
CAFI	Carex filifolia	Threadleaf sedge	Sedge	Perennial
CAL	Calochortus spp.	Mariposa lily	Forb	Perennial
CAMI		Littlepod falseflax	Forb	Annual
CANU	Camelina microcarpa Calochortus nuttallii	Sego lily	Forb	Perennial
CAR			Sedge	Perennial
CARO	Carex spp.	Sedge	Forb	Perennial
	Campanula rotundifolia	Bluebell	Forb	Perennial
CAS	Castilleja spp.	Paintbrush	Forb	Perennial
CEAR	Cerastium arvense	Field chickweed		Annual
CHAL	Chenopodium album	Lamb's quarter	Forb	Perennial
CHNA	Chrysothamnus nauseosus	Rubber rabbitbrush	Shrub	refemmat

(continued)

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	:Common		
	Pale acoseria		
	Ticklegrans		
		Antennaria dimorpha	
		Androsace occidentalia	
	Ballhead sandword		
	Heartless armica		
	Fringed sagawork		
		Arnica fulgans	
		Arenaria hookers	
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Code	Genus-Species	Common	Life Form	Longevity
CHVI	Chrysothamnus viscidiflorus	Green rabbitbrush	Shrub	Perennial
CIAR	Cirsium arvense	Canada thistle	Forb	Perennial
COM	Compositae		Forb	
COOR	Conringia orientalis	Haresear mustard	Forb	Annual
COPA	Commandra pallida	False toadflax	Forb	Perennial
CRAC	Crepis acuminatus	Tapertip hawksbeard	Forb	Perennial
CRE	Crepis spp.	Hawksbeard	Forb	
CRFL	Cryptantha flavoculata	Cryptantha	Forb	Perennial
DAN	Danthonia spp.	Oatgrasses	Grass	Perennial
DAUN	Danthonia unispicata	Onespike oatgrass	Grass	Perennial
DEPI	Descurainia pinnata	Pinnate tansymustard	Forb	Annual
DOD	Dodecatheon spp.	Shooting star	Forb	Perennial
ELJU	Elymus junceus	Russian wildrye	Grass	Perennial
ERCO	Erigeron compositus	Fernleaf fleabane	Forb	Perennial
ERI	Erigeron spp.	Fleabane	Forb	Perennial
ERPU	Erigeron pumilus	Fleabane	Forb	Perennial
EULA	Eruotia lanata	Winterfat	Half-shrub	Perennial
FEID	Festuca idahoensis	Idaho fescue	Grass	Perennial
FEOC	Festuca octoflora	Sixweek fescue	Grass	Annual
GILE	Gilia leptomeria	Gilia	Forb	Annual
GRSQ	Grindelia squarrosa	Curlcup gumweed	Forb	Biennial
GUSA	Gutierrezia sarothrae	Broom snakeweed	Half-shrub	Perennial
HAAC	Haplopappus acaulis	Stemless goldenweed	Forb	Perennial
HAGL	Halogeton glomeratus	Halogeton	Forb	Annual
HEKI	Hesperochloa kingii	King fescue	Grass	Perennial
HEPE	Helianthus petiolaris	Prairie sunflower	Forb	Annual
HYAC	Hymenoxys acaulis	Stemless hymenoxys	Forb	Perennial
IRMI	Iris missourinsis	Rocky Mountain iris	Forb	Perennial
JUOS	Juniperus osteosperma	Utah juniper	Tree	Perennial
JUSC	Juniperus scopulorum	Rocky Mountain red cedar		Perennial
KOCR	Koeleria cristata	Junegrass	Grass	Perennial
KOSC	Kochia scoparia	Fireweed	Forb	Annual
LAP	Lappula spp.	Stick tight	Forb	Annual
LAPU	Lactuca pulchella	Blue lettuce	Forb	Perennial
LARE	Lappula redowskii	Stickseed	Forb	Annual
LATE	Lappula texana	Stickseed	Forb	Annual
LEAL	Lesquerella alpina	Alkaline bladderpod	Forb	Perennial
LEAR	Lesquerella arenosa	Bladderpod	Forb	Perennial
LEDE	Lepidium densiflorum	Prairie pepperweed	Forb	Annual
LEPU	Leptodactylon pungens	Granite gilia	Forb	Perennial
LERE	Lewisia redviva	Bitterroot	Forb	Perennial
LES	Lesquerella spp.	Bladderpod	Forb	Perennial
LILE	Linum lewisii	Blue flax	Forb	Perennial
LOOR	Lomatium orientale	Eastern lomatium	Forb	Perennial
LUP	Lupinus spp.	Lupine	Forb	Annual
LYDR	Lychnis drummondii	Drummond cockle	Forb	Perennial Perennial
MACA	Machaeranthera canescens	Hoary aster	Forb	Perennial
MAGL	Machaeranthera glabriuscula	Woody aster	Half-shrub	Perennial
MAGR	Machaeranthera grindeloides	Woody aster	Forb	Annual
MATA	Machaeranthera tanacetifolia		Forb	Perennial
MAVI	Mamillaria vivipara	Pink pincushion cactus	Forb	Perennial
MESA	Medicago sativa	Alfalfa		Annual
MONU	Monolepis nuttalliana	Nuttall monolepis	Forb	amual

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Code	Genus - Species	Common	Life Form	Longevity
MUDI	Musineon divaricatum	Falsecarrot	Forb	Perennial
OPPO	Opuntia polyacantha	Plains pricklypear	Forb	Perennial
ORFA	Orobanche fasciculata	Tufted broomrape	Forb	Perennial
ORHY	Oryzopsis hymenoides	Indian ricegrass	Grass	Perennial
ORLU	Orthocarpus luteus	Owl clover	Forb	Annual
OXSE	Oxytropis sericea	White pointloco	Forb	Perennial
OXY	Oxytropis spp.	Pointloco	Forb	Perennial
PEER	Penstemon eriantherus	Fuzzytongue penstemon	Forb	Perennial
PEN	Penstemon spp.	Penstemon	Forb	Perennial
PHAU	Physaria australis	Twinpod	Forb	Perennial
PHHO	Phlox hoodii	Hood's phlox	Forb	Perennial
PHMU	Phlox multiflora	Flowery phlox	Forb	Perennial
PIFL	Pinus flexilis	Limber pine	Tree	Perennial
PLPA	Plantago patagonica	Wooly Indianwheat	Forb	Annual
PLSP	Plantago spinescens	Spiny Indianwheat	Forb	Annual
POA	Poa spp.	Bluegrass	Grass	Perennial
POFE	Poa fendleriana	Muttongrass	Grass	Perennial
POGR	Potentilla gracilis	Northwest cinquefoil	Forb	Perennial
POL	Polygonum spp.	Knotweed, smartweed	Forb	Perennial
POSE	Poa secunda	Sandberg bluegrass	Grass	Perennial
POT	Potentilla spp.	Cinquefoil	Forb	Perennial
POTR	Polanisia trachysperma	Clammyweed	Forb	Annual
PUTR	Purshia tridentata	Antelope bitterbrush	Shrub	Perennial
ROS	Rosa spp.	Rose	Shrub	Perennial
RUM	Rumex spp.	Dock, sorrel	Forb	Perennial
SAKA	Salsola kali	Russian thistle	Forb	Annua1
SEST	Sedum stenopetalum	Stonecrop	Forb	Perennial
SIHY	Sitanion hystrix	Squirreltail bottlebrush	Grass	Perennial
SPCO	Sphaeralcea coccinea	Scarlet globemallow	Forb	Perennial
STCO	Stipa comata	Needleandthread	Grass	Perennial
STI	Stipa spp.	Needlegrasses	Grass	Perennial
STVI	Stipa viridula	Green needlegrass	Grass	Perennial
TAOF	Taraxacum officinale	Common dandelion	Forb	Perennial
THAR	Thlaspi arvense	Fanweed	Forb	Perennial
TRDU	Tragopogon dubius	Salsify	Forb	Biennial
TRI	Trifolium spp.	Clover spp.	Forb	
UMB	Umbelliferae family	Carrot family		
VER	Veronica spp.	Speedwell	Forb	Annual
VIAM	Vicia americana	American vetch	Forb	Perennial

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			LauenA
	Blingyass		
	Enorweed, spartweed		
	Ports; socrel		
er as Must alcohol	Russies thistle		
mulitanua de consc			
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ARMINTO EXCLOSURE

ode Number - 0101 ounty - Natrona

gal Description - R87 T37 SW SW Sec. 2

evation - 6100 feet

<mark>getation Type – Big Sagebrush – Western Wheatgrass</mark>

nce Constructed - 1958

eatments - Contour Furrow and Crested Wheatgrass Seeding 1957

ansects Established - 1965

neral Location - Travel from Waltman to Arminto and follow the main road northwestward for 1.4 miles. Turn right and travel .2 mile along the fence to the exclosure. The Arminto Exclosure can also be reached by traveling from Monita through Lycite to Lost Cabin, then traveling 4.4 miles to the Lyber Ranch turnoff to the right. Follow this for .6 mile, take another right fork, follow this for 7.4 miles to the fork in the road with the Jim Hendrey mailbox. Take the right fork, crossing the creek and travel for 17.8 miles to the trail off the main road which goes to the Arminto Exclosure. The town of Arminto is in sight at this point.

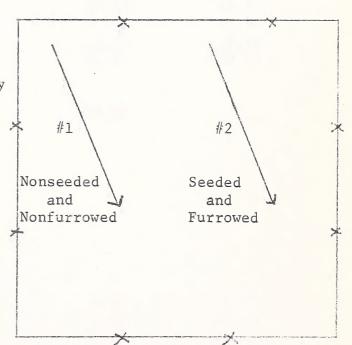
May 1965 Note - Mixed stands of AGSM and CAFI. Good AGCA stand in atour-seeded area but much apparent increase of ARTR inside, should ve sprayed ARTR when furrowing was done. Furrows holding up well many AGCR seedlings present in ditches. PHHO seems to be dying . Fair amount of EULA, ARPE, STCO, ORHY, and POSE.

Seeded and Furrowed

#3

June 1965 Note - ARPE inside exclosure is lead but outside the plants are just ;inning to send up seedstalks. Plants .lected.

Lay 1966 Note - Collected plants, mainly pels.



lants Observed at Study Area during
1965-1966

rtemisia tridentata
rtemisia pedatifida
urotia lanata
gropyron smithii
gropyron cristatum
tipa comata
ryzopsis hymenoides
oa secunda
arex eleocharis
arex filifolia
hlox hoodii
puntia polyacantha
esquerella arenosa

appula texana

phaeralcea coccinea

Machaeranthera tanacetifolia Erigeron pumilus Crepis modocensis Trifolium spp. Astragalus purshii Astragalus spatulatus Arenaria hookeri Allium textile Cymopterus montanus

INSIDE NATIVE		ARMINTO	EXCLOSURE		
	Cover % Total	Cover % <u>Average</u>	Comp. all % <u>Understory</u>	Comp. % by Group	Percent Frequency
13 August 1965	5				
ARTR ARPE Shrub Total	57.5 3.5 61.0	2.88 .17 3.05			35 10
STCO OPHY AGSM POSE AGCR Grass Total	12.0 2.0 66.0 17.5 0.5 98.0	.60 .10 3.30 .88 <u>.02</u> 4.90	5.89 .98 32.43 8.64 <u>.19</u> 48.13	12.24 2.04 67.36 17.96 .40 100.00	60 05 100 40 05
PHHO OPPO LEAR LATE Forb Total	52.0 50.0 1.0 2.5 105.5	2.60 2.50 .05 .13 5.28	25.55 24.55 .49 <u>1.28</u> 51.87	49.24 47.35 .95 <u>2.46</u> 100.00	85 40 05 20
Understory Total	203.5	10.18	100.00		
25 June 1966					
ARPE ARTR EULA Shrub Total	$ \begin{array}{r} 19.5 \\ 13.0 \\ \hline 7.5 \\ \hline 40.0 \end{array} $.97 .65 .38 2.00			40 25 20
AGCR AGSM ORHY POSE STCO CAEL Grass Total	18.5 10.5 14.0 9.5 .5 53.0	.93 .52 .70 .48 .02 2.65	6.81 3.82 5.14 3.52 .15 19.44	35.11 19.62 26.41 18.11 .75 100.00	75 40 30 20 5
PIIHO OPPO LEAR	77.0 141.0	3.85 7.06	28.25 51.79	35.06 64.30	80 45
LATE ERPU SPCO Forb Total	1.0 219.5	.02 .05 10.98	.15 .37 80.56	.18 .46 100.00	5 5
Understory Total	272.5	13.63	100.00		

AEMINTO EXCLOSURE

				INSIDE NATIVE	
	Comp. % by		Zavol	Tovel	
				Istol	
					JaupuA El
			2.88		HTHA
					ARPE
					Shrub To
		5,89		0,21	srco
		80,	01.	2,0	YHIG
			3,30		YHEO
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					OHRIG
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		24.55			LEAR
					STAJ
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					25 June 196
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		3,82	52.		
		5.14			
		28,25	88.8	77,0	
2.4		51.79	00.7		
B					
		.15			
		37.37			
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ARMINTO EXCLOSURE

	Comme				
	Cover %	Cover	Comp.	Comp.	
	Total	% Average	all %	% by	Percent
INSIDE SEEDED			Understory	Group	Frequency
J. Daniel Line		ED			
13 August 1965					
ARTR	50	2.50			20
ARPE	$\frac{2}{52}$	$\frac{.10}{2.60}$			05
Shrub Total	52	2.60			
STCO	6	.30	2.68	4.54	25
ORHY					00
POSE	14	.70	6.25	10.60	40
AGSM	60	3.00	26.79	45.47	90
AGCR	52	2.60	23.21	39.39	35
Grass Total	132	6.60	58.93	100.00	
РННО	39	1.95	17.41	42.39	55
OPPO	48	2.40	21.43	52.18	20
LEAR	_				
LATE	<u>5</u> 92	.25 4.60	$\frac{2.23}{41.07}$	5.43	20
Forb Total	92	4.60	41.07	100.00	
Understory					
Total	224	11.20	100.00		
25 June 1966					
ARPE	2	.10			5
ARTR	41.50	2.08			30
EULA	2.00	$\frac{.10}{2.28}$			5
Shrub Total	45.50	2.28			
CAEL	2.0	.10	. 90	5.26	20
AGSM					
ORHY					
POSE	5.50	. 28	2.52	14.74	35
STCO	2.0	.10	.90	5.26	5
AGCR	17.0	. 85	7.64	44.74	40
AGR	11.50	.57	_5.13	30.00	50
Grass Total	38.0	1.90	17.09	100.00	
РННО	54.0	2.70	24.28	29.28	65
OPPO	128.50	6.43	57.82	69.74	20
LEAR					
LATE					
SPCO	1.0	.05	. 45	.54	5
MATA	.50	.02	.18	. 22	5 5 5
ERPU	.50	$\frac{.02}{9.22}$	$\frac{.18}{82.91}$.22	5
Forb Total	184.50	9.22	82.91	100.00	
Understory					
Total	222.50	11.12	100.00		

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		Vac-0	Cover	Cover	
	Copp.	116			
					EUL JEUSUS CE
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		1007001			
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			× .		

ARMINTO EXCLOSURE

OUTSIDE FURROWED AND SEEDED

MARCH PATIENT STATE OF THE STATE OF T	Cover % Total	Cover % Average	Comp. all % Understory	Comp. % by <u>Group</u>	Percent Frequency
13 August 1965					
ARTR ARPE	78.5	3.925			20 00
Shrub Total	78.5	3.925			
STCO ORHY AGSM POSE AGCR Grass Total	2 1 90 24 10 127	.10 .05 4.50 1.20 .50 6.35	1.25 .62 56.26 15.00 <u>6.25</u> 79.38	1.57 .78 70.88 18.90 7.87 100.00	15 05 100 60 15
PHHO OPPO LEAR	11 20	.55 1.00	6.87 12.50	33.33 60.61	45 10 00
LATE Forb Total	$\frac{2}{33}$.10 1.65	$\frac{1.25}{20.62}$	$\frac{6.06}{100.00}$	15
Understory Total	160	8.00	100.00		
25 June 1966					
ARPE ARTR EULA Shrub Total	16.5 61.5 2.0 80.0	.82 3.08 <u>.10</u> 4.00			35 15 5
AGR AGCR AGSM	1.5	.08 2.00	.99 24.84	2.86 71.43	15 95
ORHY POSE	7.5	.37	4.60	13.21	35
STCO CAFI Grass Total	<u>7.0</u> 56.0	.35 2.80	4.35 34.78	$\frac{12.50}{100.00}$	10
PHHO OPPO LEAR	14.5 90.0	.72 4.51	8.94 56.03	13.71 85.91	40 10
LATE SPCO Forb Total	.5 105.0	.02 5.25	65.22	100.00	5
Understory Total	161.0	8.05	100.00		

ARMINTO EXCLOSURE

TRITUS STRUCTURED AND SERVICED

	Comp.	.comp.			
			3.925		
			3,925	76.5	
	1.57	1.25	01.		
	.78	50.	.05		
	70,88	56.26			
	100.00	6,25			
			.55		
	10.00		1.00		
	100.001	20,62	1,65	2 33	
		100.00			
3.5					
15	2.86		80.	1.5	
	71,43		2,00		
	13.81			7.5	
					Grass Total
	13.71				
	18.28	8.94		14.5	
		56.03	4,51	0.00	
	100.00		5.25		
			5,25	105.0	Forb Total
				161.0	

BIG BEND EXCLOSURE

Number

- 1511

ity

- Hot Springs

11 Description

- R91W T43N NE Sec. 1

tation Type

- Big Sagebrush - Western Wheatgrass

ration

- 4700 ft.

e Constructed

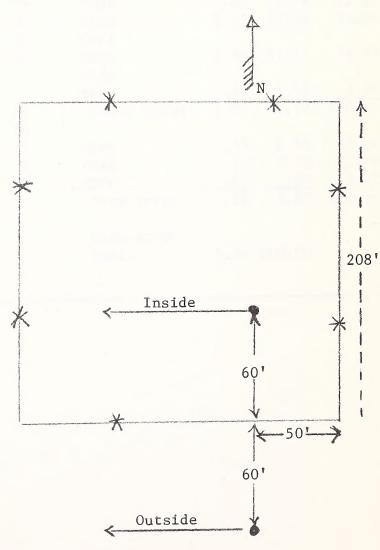
- 1966

- None

sects Established - 1966 - Inside, Outside

eral Location

- Go south out of Worland on Nowater Road for 2.9 miles, turn left at Kootis Stockyards and go east for .2 mile, then turn right and go south for 1.4 miles and cross irrigation canal, continue southward for 2.8 miles and cross east fork Nowater River, continue southward for 2.3 miles to the Worland Cattle Co. Exclosure which is about 50 yards NE of the road, continue southward for 5.9 miles, take the right fork to south on Nowater Trail for 7.9 miles, take the left fork to SE for 4.2 miles, turn right off Nowater Trail and go southward for .3 mile, take the left fork still south for .1 mile, take the left fork for .2 mile and exclosure is about 150 yards west of the road.



nts Observed During 1966

emisia tridentata otia lanata opyron smithii opyron spicatum secunda

mus tectorum teloua gracilis tuca octoflora anion hystrix

Carex filifolia Bromus tectorum Bromus japonicus Opuntia polyacantha Plantago patagonica Sphaeralcea coccinea Lepidium densiflorum Phlox hoodii

•

BIG BEND EXCLOSURE

July 15, 1966

	INSIDE						OUTSIDE					
	Cover % Avg.	Comp. all <u>Under.</u>	Comp. by Group	% Freq.		J.	Cover %	Comp. all Under.	Comp. by Group	% Freq.		
ARTR EULA Shrub Total	15.25 .35 15.60			60 10	ARTR EULA Shrub	[otal	11.65 .10 11.75			50 5		
AGSM POSE	.55 .92	10.98 18.36	11.90 19.91	80 60	AGSM AGSP		.58	11.01	12.21	85		
BRTE	1.75	34.93	37.89	85	POSE		.82	15.56	17.26	55		
FEOC	.10	2.00	2.16	20	BOGR		1.22	23.15	25.68	35		
BOGR	1.25	24.95	27.06	20	CAFI							
SIHY	05	1.00	1.08	10	BRTE		1.88	35.67	39.59	95		
Grass Total	4.62	92.22	100.00		BRJA							
					FEOC		. 25	4.74	5.26	50		
OPPO	.10	2.00	25.64	10	Grass 1	Cotal	4.75	90.13	100.00			
PLPA	.20	3.98	51.28	30								
SPCO	.02	.40	5.13	5	OPPO		.35	6.64	67.30	5		
LEDE	.02	.40	5.13	5	PLPA		.12	2.28	23.08	25		
PHHO Forb Total	.05	$\frac{1.00}{7.78}$	12.82	5	SPCO		.05	.95	9.62	10		
rord lotal	. 39	/./8	100.00		Forb To	otal	.52	9.87	100.00			
Understory Total	5 01	100.00			Underst Total	tory	5 27	100.00				
	2.01	100.00			Total		J.41	100.00				

BIG REWN EXCLOSINE

July 15, 1969

Y Tren	.cma3 .yd: neosia				, part				
			11,65						IstoT o
					5.8	37,89			
	25.68	23.15							
						1,08			
						ELLE		.02	
							04.		
				Latel dank		12,82		GE.	

BIG FLAT EXCLOSURE

e Number

vation

atments

nty

al Description

etation Type

ce Constructed

eral Location

- Big Horn

- R92W T50N NE NW Sec. 20

- 4200 ft.

- Nuttall's saltbush

- 1949

- 0916

- Seeding & Blading - 1949

sects Established - 1965 - Inside, Outside

- Take the Hyattville Road out of Manderson for 1.7 miles and follow the oil company oiled road going north for .6 mile and go east for .3 mile and turn north on Bladed pipeline trail and go .9 of a mile and exclosure is about 100 yards west. The Big Flat Exclosure can also be reached by traveling more or less westward from the Horse Haven Exclosure by following the ridge road and going westward and then the Big

turning northward when hitting the trail going up to Flat Exclosure. The distance from the Horse Haven to the Big Flat Exclosure is approximately 5 miles.

10th Inside post

Exclosure

ts Observed During 1965-1966

.plex nuttallii secunda union hystrix pyron cristatum lus junceus geton glomeratus laeranthera tanacetifolia oula redowskii urainia pinnata anisia trachysperma

/sothamnus viscidiflorus

BIG FLAT EXCLOSURE

August 14, 1965

INSIDE

OUTSIDE

	Cover %	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ATNU Shrub Total	6.8			75	ATNU Shrub Total	4.175 4.175			85
AGCR SIHY Grass Total	.95 <u>.62</u> 1.57	57.93 37.80 95.73	60.51 39.49 100.00	15 35	AGCR SIHY Grass Total				
HAGL MATA Forb Total	.02 .05 .07	1.22 3.05 4.27	28.57	5 5	HAGL MATA Forb Total	3.575 3.575	100.00	100.00	95
Understory Total	1.64	100.00			Understory Total	3,575	100.00		

MIC FLAT SKIN OSUPE

August 14, 1965

				Comp- mil Under.		44.4
		Ashio Total				
					1,64	

BIG FLAT EXCLOSURE

June 10, 1966

INSIDE

OUTSIDE

	Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ATNU Shrub Total	6.32			85	ATNU Shrub Total	$\frac{12.20}{12.20}$			85
POSE SIHY ELJU	.08	1.56 54.47	1.79 62.50	10 60	POSE SIHY Grass Total	.05	4.63 4.63 9.26	50.00 50.00 100.00	5 5
AGCR Grass Total	1.60 4.48	31.13 87.16	$\frac{35.71}{100.00}$	10	HAGL MATA	.60	55.55 13.89	61.22 15.31	100 25
DEPI LARE MATA	.22 .32 .12	4.28 6.23 2.33	33.33 48.49 18.18	45 65 20	LARE DEPI POTR	.08	7.41 13.89	8.16 15.31	15 30
Forb Total	.66	12.84	100.00	20	Forb Total	.98	90.74	100.00	
Understory Total	5.14	100.00			Understory Total	1.08	100.00		

MICHAEL BACKSULE

June 19, 1966

					EGISA		
			2 2007				
50.00 50.00 100.00		POST SIBY Grass Total				2.60	
		JOAH ATAM ERAS ERBE				0A.L 8A.A 8E.	
	90.76			100,00		31.	

9 (19)

BIG TRAILS EXCLOSURE

Number

- 2011

Exp. 80° Approx. Slope 7% Approx.

1 Description

- Washakie

- R88W T43N NE SE Sec. 5

ation

- 5000 ft.

tation Type

- Sagebrush-Grass

e Constructed

-1962

tments

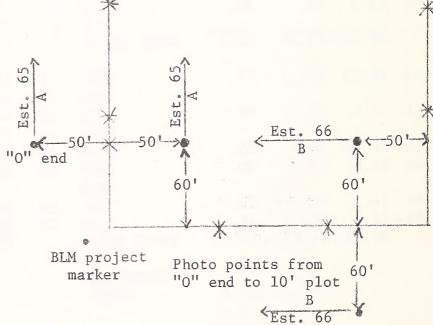
- None

sects Established - 1965 - Inside A, Outside A; 1966 - Inside B, Outside B

ral Location

- Travel south from Worland on oiled road going past sugar factory - 2.5 miles - to Coutis Livestock Yards. Turn left, going east for .3 mile, turn right, continue southward for 1.4 on oiled road to canal bridge. Continue southward on Nowater Road for 36.2 miles to Buffalo Creek Exclosure turnoff, continue on the Nowater Road to the southeast for 3.6 miles and then take the left fork to the north for 2.9 miles to the Squaw Creek Crossing. Follow the road across the creek and pass the Take the left fork for cross the small creek ranch buildings and go east for .7 mil and bed below the road for .2 mile to a fork.

.4 mile and turn off the road and go north on the ridge and on the flat for .7 mile to a fence. Go through the gate in the fence and .6 mile farther north to the exclosure.



s Observed During 1965-1966

nisia tridentata errezia sarothrae yron smithii yron spicatum secunda eria cristata eloua gracilis x filifolia a comata is acuminatus

illeja angustifolia

tia polyacantha

x hoodii

Antennaria dimorpha Astragalus grayi Penstemon eriantherus Erigeron pumilus Lewisia rediviva Astragalus missouriensis Astragalus purshii Allium textile Trifolium spp. Antennaria rosea

Sphaeralcea coccinea

Plantago patagonica

Lomatium orientale

BIG TRAILS EXCLOSURE

June 22, 1965

T	M	C	T	n	E	Α
_	TA	O	T	IJ	E	H

OUTSIDE A

ASST	Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ARTR EUSA Shrub Total	3.65 .05 3.70			35% 10	ARTR GUSA Shrub Total	8.7			50%
AGSM POSE KOCR	2.60 .50 .32	38.40 7.38 4.72	55.09 10.59 6.78	100 50 25	AGSM POSE KOCR	2.28 1.20 .47	43.86 23.07 9.03	57.00 30.00 11.75	100 70 40
BOGR CAFI Grass Total	1.30 4.72	19.22 69.72	27.54 100.00	15	BOGR CAFI Grass Total	4.00	.96 76.92	1.25 100.00	05
PHHO SPCO	1.45	21.40	70.73	70 10	PHHO PEER	.73	14.06	60.84	40
ASPU CRAC	.05 .18 .10	.74 2.66 1.48	2.44 8.78 4.88	10 15 15	SPCO ERPU ASPU	.08	1.54 4.80	6.66 20.83	15 05
PEER ALTE	.12	1.78	5.85	25	CRAC ALTE TRI	.10	1.92	8.33 1.67	20 05
CAAN ANRD Forb Total	.05 .05 2.05	.74 .74 30.28	$ \begin{array}{r} 2.44 \\ \underline{2.44} \\ 100.00 \end{array} $	10 05	PLPA Forb Total	.02 1.20	.38 23.08	1.67	05
UNDERSTORY TOTAL	6.77	100.00			UNDERSTORY TOTAL	5.20	100.00		

DITTO THATLE EXCLOSINE

June 22. 1965

		TUO .					
	Comp. B11 Unders						
			b Total				
	43.07						

BIG TRAILS EXCLOSURE

July 7, 1966

INSIDE A

OUTSIDE A

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR	3.90			35%	ARTR	8.35			40%
GUSA	.02			5	GUSA				
Shrub Total	3.92				Shrub Total	8.35			
AGSM	.18	2.29	3.22	30	AGSM	.08	1.41	1.94	15
AGSP	2.30	29.22	41.15	85	AGSP	1.85	32.68	44.79	95
POSE	.88	11.18	15.74	7 0	POSE	1.75	30.92	42.37	90
KOCR	.88	11.18	15.74	50	KOCR	.45	7.95	10.90	40
BOGR	1.30	16.52	23.26	20	BOGR				
CAFI					CAFI				
STCO	.05	.64	.89	_ 5	STCO				
Grass Total	5.59	71.03	100.00		Grass Total	4.13	72.96	100.00	
CRAC	.08	1.02	3.51	15	CRAC	.10	1.77	6.54	20
CAAN					CAAN	.05	.88	3.27	5
РННО	1.85	23.49	81.14	70	РННО	1.22	21.57	79.72	65
OPPO					OPPO				
SPCO	.05	.64	2.19	10	SPCO	.10	1.77	6.54	20
PLPA					PLPA	.02	. 35	1.31	5
LOOR	.05	.64	2.19	10	LOOR	.02	. 35	1.31	5
ANDI					ANDI				
ASGR?					ASGR?				
PEER	.08	1.02	3.51	10	PEER				
ERPU	.08	1.02	3.51	10	ERPU				
LERE	.02	.25	.88	5	LERE				
ASMI	.02	. 25	.88	5	ASMI				
ASPU	.05	.64	2.19	_ 5	ASPU	00	٥٢	1 07	-
Forb Total	2.28	28.97	100.00		ALTE	.02	.35	1.31	5
					Forb Total	1.53	27.04	100.00	
UNDERSTORY									
TOTAL	7.87	100.00			UNDERSTORY		***		
					TOTAL	5.66	100.00		

BIC TRAILS EXCLOSURE

July 7. 1466

•			язна	357		
				08		
					48.	
			Drines Total			
	88.	en.				
			IsloT data			
			UNDERSTORY			

BIG TRAILS EXCLOSURE

July 7, 1966

OUTSIDE

В		В
	INSIDE	_
	THOTDE	

% % Comp. Comp. Cover Cover Comp. Comp. % % all bу Freq. all by Freq. Under. Group Ave. Ave. Under. Group 9.28 8.05 45% ARTR 55% ARTR GUSA **GUSA** .05 9.28 8.10 Shrub Total Shrub Total .40 6.30 9.09 70 6.93 9.48 75 AGSM AGSM .40 14.69 AGSP .58 9.13 13.18 45 **AGSP** .62 10.75 15 33.41 POSE POSE 1.47 23.15 80 1.45 25.13 34.37 90 13.74 40 .60 9.45 13.64 .58 10.05 KOCR 30 **KOCR** BOGR 1.05 16.54 23.86 15 BOGR 1.15 19.93 27.25 30 .30 CAFI 4.72 6.82 5 CAFI .02 4.40 69.29 100.00 STCO .35 Grass Total 100.00 4.22 73.14 Grass Total CRAC .05 .79 2.56 10 CAAN .10 1.73 6.45 20 .02 .31 1.03 5 CRAC **PHHO** 1.25 19.69 64.11 45 CAAN 19.58 72.91 50 OPPO 6.30 20.51 PHHO 1.13 .40 10 5 6.45 SPCO .10 1.57 5.13 20 OPPO .10 1.73 5.16 15 .08 1.39 1.26 4.10 .08 15 SPCO PLPA .12 2.08 7.74 20 .05 2.56 10 PLPA LOOR .79 5 .02 .35 1.29 Forb Total 1.95 30.71 100.00 LOOR ANDI UNDERSTORY ASGR? 1.55 26.86 100.00 Forb Total 6.35 100.00 TOTAL UNDERSTORY 5.77 100.00 TOTAL

SHURDISH SILVER SIL

July 7, 19no

	Comp. sll buder,				nest Tren
		458			
IntoT den					
			Maha		
				25.11	

BUFFALO BASIN EXCLOSURE

601

Number

- 1101 - Park

nty al Description

- R100W T47N NW NE Sec. 3

ration

- 6000 ft.

etation Type e Constructed

ral Location

- Western Wheatgrass - Sagebrush

- 1966

atments

- Grass Type and Sagebrush Type

nsects Established - 1966 - Inside Grass, Inside ARTR, Outside Grass, Outside ARTR

- Travel south from Worland on the Thermopolis highway for 8.3 miles to the Gooseberry Junction. Travel westward on the Gooseberry Road for 30.5 miles to the Thermopolis-Meeteetse Junction. Travel northwestward on the Thermopolis-Meeteetse Road for 9.2 miles to the Buffalo Basin turnoff. Turn left on the Buffalo Basin Road which is an oil company oiled road and is the main road in the basin. Follow this road for 4.4 miles and turn left about 200 yards before reaching the Buffalo Basin field headquarters. Follow this road for 1.7 miles in a general northwesterly direction ignoring the sharp turnoffs going southward which

30

lead only to other oil wells. This road ends at the Pan American Petroleum Corp. well No. 7 which is about 200 yards west of the Buffalo Basin exclosure.

Inside 30 Inside Outside ARTR Type ARTR

601

8, 1966 Note - The Buffalo Basin osure is located in an area with two s. One type consist of a heavy sageh stand and the other is a grass area small scattered sagebrush bushes. basic grasses are bluebunch wheats, western wheatgrass, junegrass, and ongrass. The interest in studying two types centers on the invasion

or of sagebrush onto these normal open slands. Part of the exclosure could be

yed. Rain gauge is on fence north of

osure.

ts Observed During 1966

misia tridentata tia lanata errezia sarothrae sothamnus nauseosus pyron smithii pyron spicatum secunda eria cristata a comata

x eleocharis

Phlox hoodii Opuntia polyacantha Astragalus #1 Astragalus #2 Sphaeralcea coccinea Erigeron pumilus Taraxacum officinale Lepidium densiflorum Tragopogon dubius

Astragalus purshii

Carex filifolia

BUFFALO BASIN EXCLOSURE

July 8, 1966

Grass Type	INSIDE			Grass Type		OUTSID	E		
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR CHNA GUSA EULA	.12			15%	ARTR CHNA GUSA EULA	3.72			25%
Shrub Total	.12				Shrub Total	3.77			
AGSM AGSP POSE	4.30 .40 1.80	42.28 3.93 17.70	46.64 4.34 19.52	100. 25 85	AGSM AGSP POSE	2.95 1.65 2.00	28.97 16.21 19.65	30.17 16.87 20.45	100 80 100
KOCR STCO	1.82	17.70 17.90 3.15	19.74 3.47	75 25	KOCR STCO	1.30 1.70	12.77 16.70	13.29 17.38	80 95
CAEL CAFI	.48	4.72	5.21 1.08	75 _ 5	CAEL Grass Total	9.78	$\frac{1.77}{96.07}$	$\frac{1.84}{100.00}$. 25
Grass Total PHHO	9.22	90.00	100.00	10	РННО ОРРО	.08	.79	20.00	15
OPPO AST #1	.63	6.19 1.97	66.31	15 25	AST. #1 SPCO	.12	1.18 1.56	30.00 40.00	10 25
SPCO TRDU					TRDU AST. #2				
AST. #2 TAOF ASPU					TAOF ASPU Forb Total	.02	.20 .20 3.93	5.00 5.00 100.00	5 . 5
LEDE Forb Total	.02	9.34	$\frac{2.11}{100.00}$	_ 5	UNDERSTORY TOTAL		100.00		
UNDERSTORY TOTAL	10.17	100.00							

ERDROLONA PORRÁN DANTEUR

July h. 1966

1	THE STATE OF THE S	116	Congre			Comp. all Under		
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				CARL				
i								
117								
					25			
-								

BUFFALO BASIN EXCLOSURE

July 8, 1966

ARTR Type

ARTR Type

	INSIDE					OUTSIDE			
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ARTR	9.15			50%	ARTR	18.35			50%
EULA	.25			10	EULA				
GUSA	.02			5	GUSA				
CHNA					CHNA	-			
Shrub Total	1 9.42				Shrub Total	18.35			
AGSM	1.22	13.86	19.12	95	AGSM	1.65	21.80	26.53	95
AGSP	.32	3.64	5.02	35	AGSP	.60	7.93	9.65	45
POSE	1.52	17.27	23.82	65	POSE	1.08	14.27	17.36	60
KOCR	1.59	18.07	24.92	85	KOCR	2.17	28.66	34.89	95
STCO	1.35	15.34	21.16	80	STCO	.42	5.55	6.75	35
CAEL	.38	4.32	5.96	70	CAEL	.30	3.96	4.82	55
Grass Total	1 6.38	72.50	100.00		Grass Total	6.22	82.17	100.00	
РННО ОРРО	.72	8.18	29.75	25	РННО ОРРО	.58	7.66	42.96	25
AST. #1 AST. #2	1.61	18.29	66.52	75	AST. #1 AST. #2	.73	9.65	54.08	55
SPCO	.05	.57	2.07	10	SPCO				
ERPU	.02	.23	.83	5	ERPU				
TAOF	.02	.23	.83	5	TAOF	.02	.26	1.48	5
Forb Total	2.42	27.50	100.00		LEDE	.02	.26_	1.48	. 5
					Forb Total	1.35	17.83	100.00	
UNDERSTORY									
TOTAL	8.80	100.00			UNDERSTORY				
					TOTAL	7.57	100.00		

BUFFALO BASIN EXCLOSURE

July 8, 1966

ARTE TODE

BOVT E

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						Cower Ave.		
				109	ARTG			
				: :	9*			
			19,12	95	AGSM			
		17.27			POSE			
				8.5	KOOK			
		AE. Ed			OUTS.	24	5,55	
		4,32			18A0		3.96	
				25				
			29,75		0.11			
					0950			
					IN TRA			
	ž							
		75						
	50,	.23						
10						50.		
						30.		
						1.35		

DEAD INDIAN EXCLOSURE

Number

ty

1 Description

ation

tation Type

e Constructed tments

ral Location

- Washakie

- 2012

- R88W T45N NE¼ NW¼ Sec. 20

- 4800 ft.

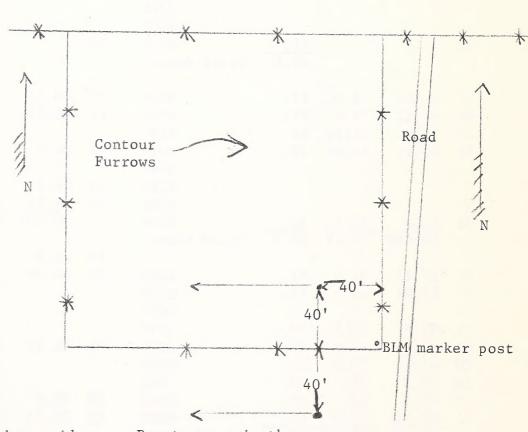
- Big Sagebrush - Bluebunch Wheatgrass

- 1965

- Contour Furrow & Crested Seeding 1965

sects Established - 1965 - Inside Furrowed, Outside Furrowed

- Take the blue bank road south from the Tensleep Worland highway for about 12 miles to Big Cedar Ridge. Big Cedar Ridge is 7 miles south of the Bud Kimball exclosure which is passed by traveling on the Bluebank Road. From Big Cedar Ridge take road east for 2.4 miles and take left fork, continue for .l mile and take right fork straight ahead to east. Continue east for 2.3 miles to fence and follow fence north for .7 mile to exclosure.



s Observed During 1965-1966

isia tridentata rrezia sarothrae lex confertifolia ia lanata yron spp. yron spicatum yron cristatum yron smithii ria cristata

comata filifolia s japonicus s tectorum

ecunda

Oryzopsis hymenoides Festuca octoflora Phlox hoodii Sphaeralcea coccinea Tragopogon dubius Medicago sativa Opuntia polyacantha Salsola kali Erigeron pumilus Lappula redowskii Viola spp. Cryptantha flavoculata

Umbelliferae fam.

Calochortus nuttallii

Penstemon eriantherus Allium textile Castilleja spp. Haplopappus acaulis Camelina microcarpa Descurainia pinnata Lepidium densiflorum Crepis acuminatus Chenopodium album Lactuca integrata Machaeranthera canescens Amaranthus spp. Helianthus spp. Boraginaceae spp.

DEAD INDIAN EXCLOSURE

July 17, 1965

Furrowed and Seeded

Furrowed and Seeded

	S	- 4	11	н

2.4 100.00

TOTAL

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR ATCO	2.35			25%	ARTR ATCO	3.30			20%
GUSA Shrub Total	2.72			15	EULA GUSA Shrub Total	3.35	-		10
AGSP	.86	35.83	43.00	65	AGSP	.75	30.25	42.15	70
AGCR	.22	9.17	11.00	45	AGCR	.22	8.87	12.36	40
BRJA					CAFI	.48	19.35	26.96	30
BRTE ORHY	.02	.83	1.00	05	STCO BRJA	.25	10.08	14.04	25
STCO	.15	6.25	7.50	25	BRTE				
CAFI	.75	31.25	37.50	25	ORHY				
Grass Total	2.00	83.33	100.00		POSE Grass Total	.08 1.78	$\frac{3.22}{71.77}$	$\frac{4.49}{100.00}$	_ 10
ALTE	.025	1.04	6.25	05					
РННО	.200	8.35	50.00	10	MESA	.18	7.26	25.71	35
DEPI LEDE					SPCO TRDU	.13	5.24	18.57	20
ERPU					VIO	.05	2.02	7.14	10
SPCO	.050	2.08	12.50	10	CRFL	.05	2.02	7.14	10
CRAC					OPPO	.05	2.02	7.14	05
OPPO					UMB	.02	.80	2.86	05
PEER	.025	1.04	6.25	05	CANU	.02	.80	2.86	05
MESA	.075	3.12	18.75	15	PHHO	.20	8.07	28.58	15
CHAL LAIN					Forb Total	.70	28.23	100.00	
SAKA CRFL	.025	1.04	6.25	05	UNDERSTORY TOTAL	2.48	100.00		
Forb Total	.400	16.67	100.00			* 1	a		
UNDERSTORY									

DEAD INDIAN EXCEOSURE

July 17, 1965

Forgrowed and Seeded

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DEAD INDIAN EXCLOSURE

June 10, 1966

Furrowed & Seeded

Furrowed & Seeded

TAI	3	T	T	177
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2.52 100.00

TOTAL

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR	2.85			20%	ARTR	1.86			15%
EULA					GUSA	.12	_		20
GUSA	.10			20	Shrub Total	1.98			
ATCO		•							
Shrub Total	2.95				AGR	.22	6.77	8.63	30
					AGSP	.71	21.83	27.84	70
AGR	.18	7.14	8.96	30	AGCR	.15	4.62	5.88	10
AGSP	1.12	44.45	55.71	60	AGSM	.02	.65	.78	5
AGCR	.08	3.17	3.98	10	KOCR				
STCO					POSE	.52	16.00	20.39	40
CAFI	.45	17.86	22.39	35	STCO	.20	6.15	7.84	15
POSE	.18	7.14	8.96	15	CAFI	.73	22.44	28.64	30
FEOC					Grass Total	2.55	78.46	100.00	
AGSM									
KOCR	-				РННО	.46	14.14	65.71	15
Grass Total	2.01	79.76	100.00		SPCO TRDU	.05	1.54	7.14	10
SPCO	.02	.79	3.92	5	MESA	.02	.62	2.86	5
PEER	.02	.79	3.92	5	OPPO	.05	1.54	7.14	5
ALTE					SAKA	.08	2.46	11.43	10
MESA	.05	1.98	9.80	10	ERPU	.02	.62	2.86	5
РННО	.30	11.93	58.84	10	LARE	.02	.62	2.86	5
CAS	.05	1.98	9.80	5	Forb Total	.70	21.54	100.00	•
UNK.	.05	1.98	9.80	5					
SAKA	.02	.79	3.92	5	UNDERSTORY				
HAAC					TOTAL	3,25	100.00		
CAMI									
TRDU									
CANU									
Forb Total	.51	20.24	100.00						
UNDERSTORY									

DEAD INTIAM EXCLOSURE

				- Jac 11	arsmo.			
	doves	Comp. all Under	1-1. t. 1-2. t.		Cover			
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Intol Total				11.52 17.54				
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DONLIN EXCLOSURE

Number

- 0102

Description

- Natrona

- R87W T38N Sec. 20

- 6200 ft.

ation Type

- Grass - Sedge

Constructed

- 1958

ments

- None

ects Established - 1965 - Inside, Outside

al Location

- Travel from Monita through Lycite and through Lost Cabin. At 4.4 miles north of Lost Cabin take the right turn at the Lyber Ranch turnoff. Follow this for .6 mile and take a left fork. Follow this main road for 7.4 miles and take the right fork at the junction of the Jim Hendrey

follow the trail for .7

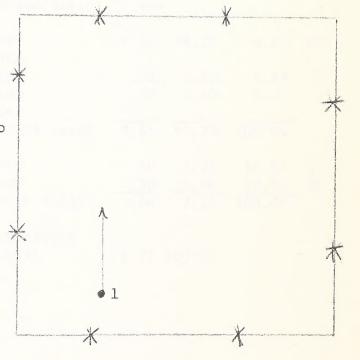
5.7 miles to Arminto

1.2 miles north of

Arminto, take the left turn to the northwest and follow the road for 4.5 miles to a cattle crossing, take the trail to the right for .3 miles. Take left fork then to the north for .5 miles to

the exclosure.

for 7.4 miles and take the creek shortly after taken mail box. The road crosses the creek shortly after taken the creek shortly after taken and about 100 yards creek shortly after taking the right guard turn left off the main road and mile to the Donlin Exclosure. Travel and 8.5 miles to the town of Waltman.//At



T

2

Observed During 1965-1966

ia lanata isia pedatifida isia tridentata <mark>lex confertifolia</mark>

yron smithii ecunda filifolia comata

yron cristatum

hoodii

ralcea coccinea naria dioeca

Arenaria hookeri Astragalus spp. Allium textile Erigeron pumilus Lappula texana Astragalus purshii Lomatium orientale Cymopterus montanus Lomatium macdouglii Musineon divaricatum Lesquerella arenosa Townsendia incana

DONLIN EXCLOSURE

August 13, 1965

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OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR ATCD EULA	2.15			25%	ARTR ARPE EULA	.28			15% 10
Shrub Total	2.15				Shrub Total	.68			
CAFI STCO	10.00	76.23	78.93	95	CAFI STCO	6.95	84.25	90.85	100
POSE	.32	2.44	2.52	20	POSE	.32	3.88	4.18	35
AGSM	.40	3.04	3.16	20	AGSM	.38	4.60	4.97	35
AGCR	1.95	14.86	15.39	45	AGCR				
Grass Total	12.67	96.57	100.00		Grass Total	7.65	92.73	100.00	
SPCO	.10	.76	22.22	10	SPCO	.10	1.21	16.67	10
РННО	. 35	2.67	77.78	20	РННО	.50	6.06	83.33	30
Forb Total	.45	3.43	100.00		Forb Total	.60	7.27	100.00	
UNDERSTORY					UNDERSTORY				
TOTAL	13.12	100.00			TOTAL	8.25	100.00		

PORTIN ENGLOSURE

2391 .21 reugun

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DOL				TAD					1
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						100,00	72, 3E		IstoT ses
						22,22 77,78 100,00			
				imal.					

DONLIN EXCLOSURE

June 25, 1966

INSIDE

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
EULA ARPE ARTR Shrub Total	.30 .25 .85 1.40			15% 10 15	EULA ARPE ARTR Shrub Total	.65		-	15%
AGSM POSE CAFI STCO Grass Total	.12 .05 6.43 <u>.65</u> 7.25	1.53 .64 82.12 8.30 92.59	1.66 .69 88.68 <u>8.97</u> 100.00	15 5 100 30	AGSM POSE CAFI Grass Total	.42 .12 <u>6.51</u> 7.05	5.30 1.51 82.09 88.90	5.96 1.70 92.34 100.00	30 15 100
PHHO SPCO Forb Total	.50	6.39 1.02 7.41	86.21 13.79 100.00	25 10	PHHO SPCO Forb Total	.78 .10 .88	9.84 1.26 11.10	88.64 11.36 100.00	45 20
UNDERSTORY TOTAL	7.83	100.00			UNDERSTORY TOTAL	7.93	100.00		

DOMESTIC EXCEOSES.

June 25, 1966

BOISIDE .OUTSIDE									
	Guap. All Bader.	in antonio in new New York			Freq.	Comp. by Stoup	Comp. all Under.	Cover Ave,	
	an or was a	čā.	LeioT	Anna Anna Shrub Shrub	1.5 1.0 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	en en de la companya	op merce to	.25 .25 .85	Total
		. 42 . 12 . 6, 51 . 7, 05		ACSM POSE CAMI Crass		. 65. 08.68 8.97 8.97			
			lado	PHHO SPCO Forb T	25				
		7.93 1		TERRITA TOTAL			00.00		

EAST RIDGE EXCLOSURE

Number

- Washakie ty 1 Description

- R97W T48N SE NW Sec. 33

- 5550 ft. ation

- Saltbush - Big Sagebrush tation Type e Constructed

- 2013

- 1965 - None

sects Established - 1965 - Inside ATNU, Inside ARTR, Outside ATNU, Outside ARTR ral Location

- On the Gooseberry Road where the road crosses Gooseberry Creek which is about 5 miles east of the junction of the Gooseberry Road and Highway 120, turn north .3 of a mile east of where the Gooseberry Road crosses the Creek. This is at a benchmark with the numbers 5130 imprinted on it. Go northwestward for 1.8 miles and take a right fork 1.0 miles, beyond the fork the road goes under the power line. Follow this road

for .4 miles where the road leaves the power line and continues northwestward. .6 miles later the road crosses under power lines again. Continue north for 1 mile and take a left fork to the west, 1.5 miles 20×20 beyond take the fork to the north, 2 miles the north, 2 miles beyond take another right fork which is about mile south of Squaw Tits. Continue to the southeast for 2.4 miles and take another right fork for 3.1 miles to the exclosure.

111111 second steel post 8th steel post 65 L Road

s Observed During 1965-1966

nisia tridentata lex nuttallii othamnus viscidiflorus nisia pedatifida nion hystrix secunda yron smithii comata psis hymenoides

ıla redowskii ositae spp. deranthera tanacetifolia

a americana rainia pinnata Lepidium densiflorum Allium textile Erigeron pumilus Phlox hoodii Chenopodium album Opuntia polyacantha Cordylanthus ramosus Crepis acuminatus Cryptantha bradburiana Umbelliferae fam. Thlaspi arvense

Leptodactylon pungens

Monolepis nuttalliana

Castilleja spp.

EAST RIDGE EXCLOSURE

August 11, 1965

ATNU Type

ATNU Type

	INSIDE	E				OUTSI	Œ		
	Cover % Ave.	Comp. all Under	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ATNU Shrub Total	8.05 8.05	_		60%	ATNU Shrub Total	16.35 16.35	-		70%
SIHY POSE	1.45	54.31	84.30	60	SIHY POSE	.92	28.75 21.25	42.21 31.19	60 30
ORHY Grass Total	1.72	10.11 64.42	15.70 100.00	. 25	ORHY Grass Total	2.18	18.12 68.12	$\frac{26.60}{100.00}$	_ 15
ALTE	.25	9.36	26.32	45	ALTE	.25	7.81	24.51	45
CRBR	.33	12.36	34.73	65	CRBR	.47	14.69	46.08	70
MONU	.37	13.86	38.95	70	MONU	.30	9.38	29.41	60
Forb Total	.95	35.58	100.00	•	Forb Total	1.02	31.88	100.00	
UNDERSTORY TOTAL	2.67	100.00			UNDERSTORY TOTAL	3.20	100.00		

EAST RIDGE EXCLOSURE Aunust 11, 1905

ATM Type

 INSIDE									
 Cover 2 Ave.	Comp. all	Coate by Group	, psri	and the second s					
				vijik Istof dotal					
		08.30		YOLK					
	10,11	15:76 100:00	25						
	9,36	26,32	45						
	13.86	38,95			88.8				
				VAOLENBUM					

EAST RIDGE EXCLOSURE

August 11, 1965

ARTR Type

INSIDE

ATNU Type

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq
ATNU	. 45			10%	ATNU				_
ARPE				2075	CHVI	.10			05%
CHVI					AR T R	13.05			75
ARTR	21.05			60	Shrub Total	13.15			13
Shrub Total	21.50				Dill GD TOGGE	10113			
					AGSM	.80	13.54	31.62	75
SIHY	.83	13.56	32.55	65	POSE	.98	16.58	38.74	65
POSE	1.42	23.21	55.69	10	STCO	• • •			
ORHY	.10	1.63	3.92	10	ORHY				
AGSM	20	3.27	7.84	30	SIHY	.75	12.69	29.64	60
Grass Total	2.55	41.67	100.00		Grass Total	2.53		100.00	
ALTE	.12	1.96	3.36	25	OPPO	.15	2.54	4.44	05
VIAM	.25	4.08	7.00	45	РННО	.50	8.46	14.79	20
РННО	2.15	35.13	60.24	25	ALTE	. 20	3.38	5.92	40
CORA	.43	7.02	12.04	70	CORA	.92	15.58	27.22	100
MONU	.08	1.31	2.24	15	DEPI	.08	1.35	2.36	15
CHAL	. 12	1.96	3.36	25	VIAM	.15	2.54	4.44	30
CRBR	.12	1.96	3.36	25	CHAL	.28	4.74	8.28	55
LEDE	.20	3.27	5.60	35	CRAC	.20	3.38	5.92	20
CRAC	.02	. 33	.56	05	CRBR	.20	3.38	5.92	40
DEPI	.08	1.31	2.24	15	LEDE	.10	1.69	2.96	20
CAS					ERPU	.58	9.81	17.16	35
Forb Total	3.57	58.33	100.00		UMB	.02	. 34	.59	05
					Forb Total	3.38	57.19	100.00	
UNDERSTORY									
TOTAL	6.12	100.00			UNDERSTORY				
					TOTAL	5.91	100.00		

SAST KIDGE SKELDSURE

Angust 11 1965

STALL Type

82.11 10.24 12.04

EAST RIDGE EXCLOSURE

June 24, 1966

ATNU Type

ATNU Type

	INSIDE	;				OUTSII	OUTSIDE		
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ATNU Shrub Total	7.10 7.10			65%	ATNU Shrub Total	13.88 13.88			65%
SIHY ORHY Grass Total	3.28 .40 3.68	86.31 10.53 96.84	89.13 10.87 100.00	80 30	SIHY POSE ORHY Grass Total	1.15 2.07 .08 3.30	31.51 56.71 2.19 90.41	34.85 62.73 2.42 100.00	60 45 5
CHAL Forb Total UNDERSTORY TOTAL	.12 .12	$\frac{3.16}{3.16}$ 100.00	1 <u>00.00</u> 100.00	20	LARE CHAL Forb Total	.15 .20	4.11 5.48 9.59	42.86 57.14 100.00	30 40
	7, 1				UNDERSTORY TOTAL	3.65	100.00		

MAST RINGE EXCLOSURE

June 24 , 1966

SOT UTTA

		Comp. by Group				1-37 .	Mar.						
						13:88							
						70.C							

EAST RIDGE EXCLOSURE

June 24, 1966

ARTR Type

ARTR Type

	INSIDE					OUTSI	DE		
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR ATNU Shrub Total	14.55 1.60 16.15	-		65% 10	ARTR Shrub Total	10.30 10.30			60%
AGSM POSE SIHY Grass Total	.18 2.44 <u>.78</u> 3.40	3.16 42.81 13.68 59.65	5.29 71.77 22.94 100.00	25 70 65	SIHY POSE AGSM Grass Total	.38 .90 1.37 2.65	7.04 16.67 25.36 49.07	14.34 33.96 51.70 100.00	25 75 90
ALTE VIAM PHHO LARE LEPU THAR CHAL COM DEPI Forb Total	.02 .45 1.35 .15 .08 .08 .05 .10	.35 7.89 23.70 2.63 1.40 1.40 .88 1.75 .35	.87 19.56 58.70 6.52 3.48 3.48 2.17 4.35 .87	5 55 30 30 10 10 10 5	LARE COM MATA VIAM DEPI LEPU LEDE ALTE ERPU UNK. PHHO	.18 .02 .18 .18 .12 .02 .10 1.51 .02	3.33 3.33 .37 3.33 3.33 2.22 .37 1.85 27.99 .37 3.70	6.55 6.55 .73 6.55 6.55 4.36 .73 3.64 54.88 .73 7.27	35 20 5 30 35 20 5 20 35 5
UNDERSTORY. TOTAL	5.70	100.00			CHAL UNK Forb Total UNDERSTORY TOTAL	.02 .02 2.75	.37 .37 50.93	.73 .73 100.00	5 5

EAST MIDGE DACLOSURE

June 24, 1968

AKIR Type

| Cover | Coup. | Coup

Number

ity

1 Description

ration

- Washakie

- R88W T46N NE SW Sec. 22

4800 ft.

tation Type

- Sagebrush-Grass

e Constructed

- 1965

- 2014

tments

ral Location

- ARTR Sprayed 1964

sects Established - 1965 - Inside Spray, Inside Non Spray, Outside Spray, Outside Non Spray - About .1 mile south of the Bud Kimball exclosure take the road going east for 3.6 miles to the fork in the road at the south end of Castle

Ridge. One can get to this point also by coming down the Bud Kimball-Two Mile Hill road on the east side of Castle Gardens and Castle Ridge for 6 miles. Go east from this fork for .7 mile, take the right fork to the south and go southeasterly for 4.1 miles and take the left fork (about ½ mile north of Bud Kimball Creek for .9 mile) and the exclosure

is south of the road about .2 mile.

BLM Marker post

Non Spray Spray

ts Observed During 1965-1966

nisia tridentata errezia sarothrae pyron spicatum pyron smithii secunda a comata us tectorum ca longifolia uca octoflora eria cristata nion hystrix

eloua gracilis

Opuntia polyacantha Carex filifolia Phlox hoodii Calochortus nuttallii Plantago spinescens Antennaria dimorpha Descurainia pinnata Crepis spp. Allium textile Lepidium densiflorum Erigeron pumilus Tragopogon dubius

Leptodactylon pungens Androsace occidentalis Cordylanthus ramosus Musineon divaricatum Plantago patagonica Machaeranthera canescens Arenaria hookeri Atriplex argentea Monolepis nuttalliana Chrysothamnus viscidiflorus Gilia leptomeria Penstemon spp. Commandra pallida

July 17, 1965

Spray

INSIDE

Spray

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
STCO					ARTR	.15			05%
SIHY	. 2	4.27	6.67	15		1			
AGSP	.18	3.85	6.00	20	Shrub Total	.15			
AGSM	.45	9.62	15.00	50					
POSE	1.97	42.08	65.66	75	SIHY	.10	1.07	2.10	10
FEOC	.05	1.07	1.67	10	AGSM	.48	5.12	10.06	35
BRTE	.15	3.21	5.00	25	AGSP	1.57	16.76	32.91	70
Grass Total	3.00	64.10	100.00		STCO	.12	1.28	2.52	15
					POSE	2.28	24.33	47.79	90
PLSP	.57	12.18	33.93	70	BRTE	.05	.53	1.05	10
LEDE	.15	3.21	8.93	30	FEOC	.07	.75	1.47	10
OPPO	.80	17.09	47.62	15	KOCR	.10	1.07	2.10	10
ANOC	.08	1.71	4.76	15	ARLO				
CORA	.08	1.71	4.76	15	Grass Total	4.77	50.91	100.00	
Forb Total	1.68	35.90	100.00						
					OPPO	3.80	40.56	82.61	25
UNDERSTORY					РННО	. 2	2.13	4.35	10
TOTAL	4.68	100.00			PLSP	.25	2.67	5.43	50
					LEDE	.12	1.28	2.61	25
					ANOC	.18	1.92	3.91	30
					CORA	.05	.53	1.09	10
					Forb Total	4.60	49.09	100.00	
					UNDERSTORY				
					TOTAL	9.37	100.00		

			7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Frequency	Comp. by Group	Comp. all Under.	
				* ***			
					6.67		
					00.3		
				90	15,00		
				2.5			
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			DUTA				
		11.4	Grass Total				
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	00.001		UNDERFORE LATOR				

July 17, 1965

V	0	n		S	p	r	ay	
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INSIDE

Non-spray

OUTSIDE

	Cover % Ave.	all	Comp. by Group.	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.	
ARTR	9.1			45%	ARTR Shrub Total	12.25 12.25			60%	
Shrub Total	9.1									
					AGSP	.30	7.89	11.03	25	
AGSP	.25	4.90	8.99	20	AGSM	.12	3.16	4.41	20	
AGSM	.58	11.37	20.86	80	POSE	1.92	50.52	70.59	70	
POSE	1.80	35.30	64.75	65	STCO	.28	7.37	10.29	20	
KOCR	.10	1.96	3.60	10	BRTE					
BRTE	.05	.98	1.80	10	ARLO	.05	1.32	1.84	10	
Grass Total	2.78	54.51	100.00		FEOC KOCR	.05	1.32	1.84	10	
РННО	.85	16.68	36.64	20	Grass Total	2.72	71.58	100.00		
CRE	.02	.39	.86	05						
PLPA	.73	14.31	31.47	65	ANOC	.10	2.63	9.26	15	
OPPO	.70	13.72	30.17	15	PLSP	.28	7.37	25.93	55	
CORA	.02	. 39	.86	05	CORA	.05	1.32	4.63	10	
Forb Total	2.32	45.49	100.00	16	OPPO	.60	15.78	55.55	5	
UNDERSTORY					ALTE ERPU	.05	1.32	4.63	10	
TOTAL	5.10	100.00			Forb Total	1.08	28.42	100.00		
Lanu, III					UNDERSTORY					
					TOTAL	3.80	100.00			

ENTROPORT THEFT

July 17, 1965

							Asid
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		I Gul.					
		E WY		38.00			
		0078		25.20	35,30	1,80	
		77.5 8		3.60	1.96	DI.	
			D.L.	08.1	80.		
		3039			54.51		IsanT :
							Total
							YROT

June 11, 1966

Spray

INSIDE

Spray

OUTSIDE

							001011		
	Cover % Ave.	Comp. all Under.	Comp by Group	% Freq.	i i	Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ARTR				%	ARTR	.75			5%
GUSA Shrub Total					Shrub Total	.75	-		373
	9				AGSP	1.42	22.83	33.02	80
AGSP	.10	2.21	3.14	15	AGSM	.32	5.14	7.44	50
AGSM	.58	12.80	18.24	65	POSE	2.11	33.93	49.08	90
POSE	1.82	40.18	57.24	80	KOCR	.05	.80	1.16	5
SIHY	.20	4.42	6.29	10	ARLO				
KOCR					BRTE	.15	2.41	3.49	25
BRTE	.38	8.39	11.95	45	FEOC	.05	.80	1.16	10
STCO	.05	1.10	1.57	5	STCO	.20	3.22	4.15	15
FEOC BOGR	.05	1.10	1.57	10	Grass Total	4.30	69.13	100.00	
ARLO CAFI					ALTE LEDE	.02	.32	1.04	5
Grass Total	3.18		100.00		PHHO ERPU	.10	1.61	5.21	5
LEDE	.15	3.31	11.11	30	OPPO	1.78	28.62	92.71	30
OPPO CRE	.76	16.80	56.30	10	PLSP TRDU				%
ERPU					LEPU	.02	.32	1.04	5
MACA TRDU					Forb Total	1.92	30.87	100.00	
LEPU ARHO ATAR MONU PHHO					UNDERSTORY TOTAL	6.22	100.00		
PLSP	.42	9.25	31.11	75					
ALTE CHVI	.02	.44	1.48	5					
GILE PEN MUDI COPA CANU									
Forb Total	1.35	29.80	100.00						
UNDERSTORY		100.00							
TOTAL	4.53	100.00							

ENGER EXCLOSURE

hope II, 1966

Sursy

DUTSTOE

			Z Freq.	Comp. all Under.	
		ATTALA.	Ž.		
		Sirof Total			
					Intolal
		AGSP			
			EL		
	11 8			12,80	
		SILO			
		Grass Total		0.1.1	
				70.20	Intel
					-

	50.

otal 1.35 29.80 100.00

T30741

4.53 100.00

INSIDE

June 11, 1966

Non-spray

Non-spray

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq
ARTR	7.15			60%	ARTR	12.35			60%
Shrub Total	7.15				Shrub Total	12.35			
AGSP	.40	7.81	10.53	30	AGSP	.22	8.53	11.58	15
AGSM	.52	10.16	13.68	7.5	AGSM	.08	3.10	4.21	15
POSE	2.73	53.32	71.83	85	POSE	1.20	46.50	63.16	60
KOCR	.05	.98	1.32	5	STCO	.25	9.69	13.16	25
SIHY	.02	.39	.53	5	BRTE	.08	3.10	4.21	15
BRTE	.08	1.56	2.11	_ 15	ARLO	.05	1.94	2.63	5
Grass Total	3.80	74.22	100.00	-	FEOC	.02	.78	1.05	. 5
					Grass Total	1.90	73.64	100.00	
LEPU	.18	3.52	13.64	15					
РННО	. 45	8.79	34.09	10	OPPO	.54	20.92	79.42	10
CRE	.05	.98	3.79	5	РННО				
OPPO	.53	10.34	40.13	20	CANU				
ALTE	.02	. 39	1.52	5	PLSP	.02	.78	2.94	5
PLSP	.02	. 39	1.52	5	ANDI	. 05	1.94	7.35	5
MUDI	.02	. 39	1.52	5	DEPI	.02	.78	2.94	5
ANDI	.05	.98	3.79	_ 5	CRE	.05	1.94	7.35	. 5
Forb Total	1.32	25.78	100.00		Forb Total	.68	26.36	100.00	
UNDERSTORY					UNDERSTORY				
TOTAL	5.12	100.00			TOTAL	2.58	100.00		

Jame 11, 1966

			•			Comp. all Under.		
				KOA				
		12.35						
	0.53	.22	AGSP	DE				
							.52	
		1.20	ROSE					
	28.0							
			BREE	3				
			DJIA					
			FEOC		00.00	74,22		
			0800		20.00	8.79		
			DITAG.			46.01		
						e¥ .		

GRASS CREEK DIVIDE EXCLOSURE

Number

- 1512

ity

- Hot Springs

1 Description

- R100W T45N NE NE SW Sec. 3

ration

-7000 ft.

tation Type

- Mixed Grass - Shrub

e Constructed

- 1966

- ARTR Spray

tments

sects Established - 1966

ral Location

- From the Dickie-LU headquarters follow the Enos Creek Road for 3.3 miles to the junction of the Enos Creek-Grass Creek Roads. Follow the Enos Creek road for .6 mile, turn left and travel for about 2 miles to a fence. Do not go through the fence but follow it for about 1.1 miles to the top of the ridge then go through the fence into the Forked Pasture. Follow the Ridge Top road in this pasture for 1.5 miles to the fence and enter the Lower Grass Creek Pasture. Follow the Ridge Top road in a

southwesterly direction for 2.3 miles to the Grass Creek Divide Exclosure.

6, 1966 Note

exclosure is on the top of a ridge and encloses a number of vegetative types. One very resting small area is a low depression erosion unit, with apparently some kind of a saline condition. There is very little grass in this saline type. The primary species is someg similar to Paronychia sessiliflora, but apparently is Arenaria hookeri. There are two s of open non-sagebrush grass within the exclosure also. One is a rather rocky gravelly with very little vegetation. The other is almost a meadow type with a very dense stand of ses and sedges. There is a dense stand of sagebrush in the exclosure also. The sagebrush bout 3' tall and very dense. Comparable inside and outside areas of each of these four s are available and will be studied

ts Observed During 1966

misia frigida misia tridentata errezia sarothrae

sothamnus nauseosus spp. secunda

eria cristata pyron spp.

stis spp. a spp. fendleriana

pyron spicatum x spp. honia unispicata uca idahoensis

Stipa viridula Potentilla gracilis

Phlox hoodii

Taraxacum officinale Erigeron compositus Androsace occidentalis

Cerastium arvense Antennaria rosea

Campanula rotundifolia

Arenaria congesta Achillea lanulosa Arenaria hookeri Erigeron pumilus Hymenoxys acaulis Potentilla spp.

Grindelia squarrosa

Polygonum spp. Astragalus miser Oxytropis spp. Penstemon spp.

Astragalus missouriensis

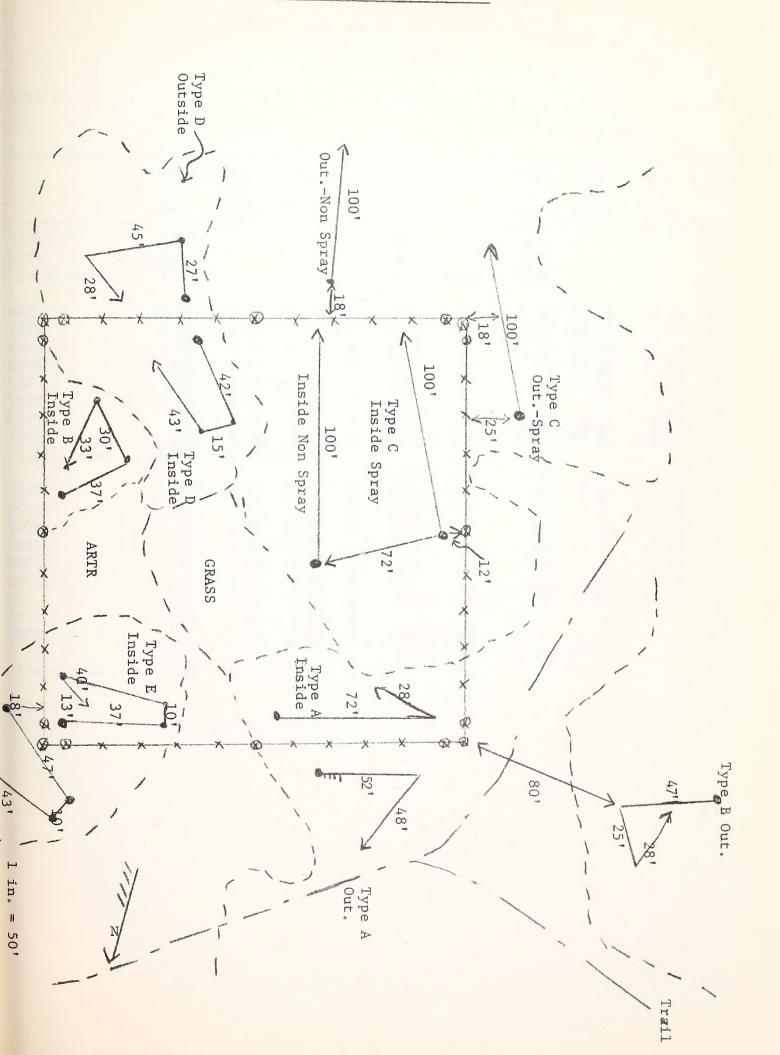
Vicia americana Compositae fam. Lupinus spp.

Orthocarpus luteus Arnica fulgens Arnica cordifolia Conringia orientalis Musineon divaricatum

Dodecatheon spp.

Ranunculus

and the second s





GRASS CREEK DIVIDE EXCLOSURE

August 17, 1966

Type A

Type A

		INSIDE	3				OUTSID	E	
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARFR ARTR Shrub total	2.08 1.22 3.30			7 5% 40	ARFR ARTR Shrub Total	3.58 1.02 4.60			95% 25
AGR POSE KOCR POFE CAR DAUN FEID STVI	3.05 1.20 1.12 .48 .15 2.22 .28 .25	25.55 10.06 9.39 4.02 1.26 18.61 2.35 2.10	34.86 13.71 12.80 5.49 1.71 25.37 3.20 2.86		AGR POSE KOCR POFE CAR DAUN STVI Grass Total	2.45 1.05 1.22 .92 .28 .02 .28	34.31 14.71 17.09 12.88 3.92 .28 3.92 87.11	39.40 16.88 19.61 14.79 4.50 .32 4.50 100.00	100 85 80 55 55 5 20
ANRO ACLA TAOF CEAR ERPU POGR POT ANOC GRSQ Forb Total	8.75 1.59 .05 .48 .60 .08 .15 .08 .10 .05	13.33 .42 4.02 5.03 .67 1.26 .67 .84 .42	100.00 50.00 1.57 15.09 18.87 2.52 4.72 2.52 3.14 1.57	55 10 70 55 15 30 15 20	ACLA CEAR TAOF ANRO POGR ANOC POT Shrub Total UNDERSTORY TOTAL	.08 .20 .34 .15 .08 .02 .05	1.12 2.80 4.77 2.10 1.12 .28 .70 12.89	8.70 21.74 36.96 16.30 8.70 2.17 5.43	15 30 70 10 15 5
UNDERSTORY TOTAL	11.93	100.00							

GRASS CREEK DIVIDE RICLOSURE

August 17, 1966

Type A

		Comp. all Under.	Comp. by Group	Ereq.					
	2,08			75%		3,58			
					Shrub Total				
	3.05 1.20		34,86 13,71 12,80	001 001 08	ACR POSE KOCR	2.45 1:05 1.22	34.31 14.41 17.69		
	.48 .15 2.22		5.49 1.71 25.37				3.92		
	. 28	2.35 2.30 73.56	ir. No. 8	25 15	STVI Crass Total	.28 6,22		4.50	
Total	8.7.8 0.05 0.06 0.06 0.06 0.06	13:33 4:02 5:02 5:03 1,26 47 88	00:00 15:00 15:00 19:01 19:02 2:52 4:72 2:53		Acia Crak Crac Acir Port Acir Acir Tot Shrub Total Gaderstory Total				

GRASS CREEK DIV. EXCLOSURE

August 17, 1966

Type "B"	INSIDE				Type "B"		OUTSID	E	
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ROS Spp.	.02			5%	SHRUB - (Bare	:)			
Shrub Total	.02								
The second second					DAUN	3.50	22.92	72.17	50%
DAUN	3.76	38.11	77.54	30	POSE	1.20	7.86	24.74	70
POSE	.72	7.29	14.84	35	KOCR	.15	.98	3.09	15
CAR	.02	.20	.41	5	Grass Total	4.85	31.76	100.00	
KOCR	.25	2.53	5.15	25					
AGSP	.10	1.01	2.06	_ 5	ARHO	10.42		100.00	75
Grass Total	4.85	49.14	100.00		Forb Total	10.42	68.24	100.00	
ACLA	.05	.51	1.00	10	UNDERSTORY TO	TAL			
ARHO	4.81	48.73	95.80	60		15.27	100.00		
ANRO	.02	.20	.40	5					
GRSQ	.02	.20	. 40	5					
POGR	.05	.51	1.00	5					
POL	.05	.51	1.00	10					
UNK	.02	.20	.40	5					
Forb Total	5.02	50.86	100.00						
UNDERSTORY									
Total	9.87	100.00							

August 17, 1966

		***	er tra sa krant .				
		Coap. by Group	, pt 1				
			5.8				
IsaoT		77.54 14.84 -41		DAUN FUSE KOCK Grass Total			
		\$0.00 2.06 100,00		ARHO Vorb Total	10,62	68,24	
	12. 20. 20. 20. 20. 12.	1.00	10 5 5 10 10	UNDERSTORE TO			
	30,86						

GRASS CREEK DIV. EXCLOSURE

July 17. 1966

Spray Type "C"

Spray Type "C"
OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq			Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR	15.32			90%	ARTR		14.10			100%
CHNA					ARFR		.05			10
ARFR	.05			5	Shrub	Total	14.15			
Shrub Total	15.37									
					FEID		4.39	49.51	68.37	95
FEID	1.38	16.62	26.94	60	KOCR		.38	4.28	5.92	55
DAUN	1.15	13.86	22.46	15	AGR		. 30	3.38	4.67	60
KOCR	.35	4.22	6.84	45	DAUN		.20	2.25	3.12	20
AGR	.52	6.26	10.16	90	POFE		.55	6.20	8.57	75
CAR	.32	3.86	6.25	55	POSE		.40	4.51	6.23	50
POSE	.75	9.04	14.65	65	CAR		.20	2.25	3.12	40
POFE	.65	7.83	12.70	55	Grass	Total	6.42	72.38	100.00	
Grass Total	5.12	61.69	100.00							
					CEAR		.50	5.64	20.41	95
ANRO	1.35	16.29	42.46	60	ORLU					
CEAR	.30	3.61	9.43	45	POGR		.20	2.25	8.16	40
POGR	.28	3.37	8.80	55	РННО		.28	3.16	11.43	25
TAOF	.10	1.20	3.14	20	ANRO		.84	9.47	34.28	55
ACLA	.08	.96	2.52	15	UNK#1		.05	.56	2.04	10
ASMI2	.50	6.02	15.72	80	TAOF		.18	2.03	7.35	35
ANOC	.02	.24	.63	5	POT		.05	.56	2.04	10
POT	.05	.60	1.57	5	ERPU		.02	.23	.82	5
РННО	.38	4.58	11.95	30	ACLA		.08	.90	3.27	15
ERPU	.08	.96	2.52	15	ARFU		.05	.56	2.04	10
ERCO	.02	.24	.63	5	ASMI2		.05	.56	2.04	10
ARCO2					OXY		.15	1.69	6.12	30
OXY					Forb	Total	2.45	27.62	100.00	
COOR	.02	. 24	.63	5						
Forb Total	3.18		100.00	•	UNDERS TOTAL		8.87	100.00		
UNDERSTORY					TOTAL		0.07	200,00		
TOTAL	8.30	100.00								

GRASS CHEEK DIV. EXCLOSIVE

Salv IV. 1966

				Preq.		Comp. all Under.		
				206				
					AB . BE	14.61		
			WA:		84,51		21,15	
			HITAG			\$5.4		
						5.26		
				146				
	28.8							
						61,69		
						26.29		
		20.						

GRASS CREEK DIV. EXCLOSURE

August 17, 1966

Non-spray Type "C" INSIDE

Non-spray Type "C"

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq	•	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR	11.94			95%	ARTR	11.85			80%
ARFR	.18	-		10	CHNA	. 35			10
Shrub Total	12.12				ARFR	.40			20
					Shrub Total	12.60			
AGR 2	.02	.20	. 40	5					
FEID	2.21	21.98	43.76	55	FEID	1.69	19.66	33.66	35
KOCR	.32	3.18	6.34	40	KOCR	.88	10.23	17.53	75
AGR	.30	2.99	5.94	55	POFE	1.25	14.53	24.90	75
POSE	.65	6.47	12.87	65	POSE	.42	4.88	8.37	65
POFE	.95	9.45	18.81	100	CAR	. 30	3.49	5.98	55
CAR	.10	1.00	1.98	20	AGR	.38	4.42	7.57	60
DAUN	.02	.20	.40	5	DAUN	.10	1.16	1.99	. 5
STVI	. 48	4.78	9.50	35	Grass Total	5.02	58.37	100.00	
Grass Total	5.05	50.25	100.00						
					OXY	.18	2.09	5.03	30
CEAR	. 35	3.48	7.00	65	ANRO	.70	8.14	19.55	30
ANRO	2.66	26.47	53.20	70	CEAR	.28	3.26	7.82	25
TAOF	.25	2.49	5.00	50	РННО	. 76	8.85	21.23	50
POGR	.22	2.19	4.40	45	ASMI 2	.55	6.39	15.36	80
ASMI2	.32	3.18	6.40	65	COM	.05	.58	1.40	10
ERPU	.08	. 80	1.60	15	TAOF	.05	.58	1.40	10
ACLA	.15	1.49	3.00	30	POGR	. 25	2.91	6.98	45
РННО	.38	3.78	7.60	40	ERPU	.02	.23	.56	5
OXY	.32	3.18	6.40	55	ARHO	.60	6.98	16.76	5
HYAC	.10	1.00	2.00	20	POT	.08	.93	2.23	15
ANOC	.12	1.19	2.40	25	ANOC	.02	.23	.56	5
POT	.05	.50	1.00	10	ACLA	.02	.23	.56	5
Forb Total	5.00		100.00		LUP	.02	.23	. 56	_ 5
					Forb Total	3.58	41.63	100.00	
UNDERSTORY									
TOTAL	10.05	100.00			UNDERS TORY TOTAL	8.60	100.00		

CRASS CREEK DIV. EXILOSURE

August 17, 1986

			Z Treq.			
		ятна				
				04:		
		GIST			21,99	
		EDGE	4.0			
			55	No. 1		
		1304	65	12:87	19.9	
		HAD	1001	18.81	21.8	
			20	ET 25 + 7	31.8	
					20	
				05.6	4.78	

GRASS CREEK DIVIDE EXCLOSURE

August 18, 1966

Type "D"

INSIDE

Type "D"

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARFR	.98			65%	ARTR	.80			30%
GUSA	2.32			90	ARFR	1.72			70
ARTR	.65	gue .		15	GUSA	.48	See		60
Shrub Total	3.95				Shrub Total	3.00			
POSE	.52	4.49	9.12	75	AGR 2				
KOCR	.62	5.35	10.88	80	FEID	.22	2.77	5.57	15
AGR	.72	6.22	12.63	80	KOCR	.98	12.33	24.81	90
POFE	1.72	14.85	30.18	100	AGR	1.13	14.20	28.61	95
STVI	1.02	8.81	17.89	30	POSE	.95	11.95	24.05	90
FEID	.20	1.73	3.51	15	CAR	.15	1.89	3.80	30
AGSP	.65	5.61	11.40	55	DAUN				
CAR	.05	.43	.88	5	STI				
DAUN	.20	1.73	3.51	_ 10	POFE	.52	6.54	13.16	40
Grass Total	5.70	49.22	100.00		Grass Total	3.95	49.68	100.00	
ARHO	2:57	22.21	43.72	70	CEAR				
POGR	.40	3.45	6.80	70	ANRO	.45	5.66	11.25	15
GRSQ	.40	3.45	6.80	70	TAOF	.12	1.51	3.00	25
ASMI	.42	3.63	7.14	80	POGR	.10	1.26	2.50	20
VIAM	.08	.69	1.36	15	ASMI2	. 35	4.40	8.75	65
РННО	.88	7.60	14.97	80	ERPU				
TAOF	.25	2.16	4.25	50	ACLA				
ERPU	.22	1.90	3.74	35	РННО	.60	7.55	15.00	60
HYAC	.18	1.55	3.06	25	OXY				
ANOC	.08	.69	1.36	15	HYAC	.05	.63	1.25	10
POT	.08	.69	1.36	15	ANOC				
ACLA	.05	.43	.85	10	POT	.05	.63	1.25	10
CEAR	.05	.43	.85	10	GRSQ	.08	1.01	2.00	10
UNK#1	.05	.43	.85	10	ARHO	2.08	26.16	52.00	65
ERCO	.15	1.30	2.55	25	ERCO	.10	1.26	2.50	15
ANRO	.02	.17	. 34	_ 5	PEN	.02	.25	.50	_ 5
Forb Total	5.88	and the same of th	100.00		Forb Total	4.00	50.32	100.00	
UNDERSTORY					UNDERSTORY				
TOTAL	11.58	100.00			TOTAL	7.95	100.00		

GRASS CRIMES DIVIDE EXCLOSURE

August 18, 1966

"d" sgyT

			g.		Comp.	
		STAA				
		5 80A		9.12		
		gian	08	10.88		
		KOCK		12.63		
				17.83	13.8	
				1,3	£7.1	
				11.40	5.61	
					EAL	
					69.	
					1.55	

GRASS CREEK DIV. EXCLOSURE

August 17, 1966

Type "E"

TOTAL

Type "E"

	INSIDE				OUTSIDE				
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ARFR	.48			35%	ARFR	.52			50%
ARTR	.05			10	ARTR	1.23			30
GUSA	. 05			10	GUSA	.10			5
Shrub Total	.58	equality			Shrub Total	1.85			
AGSP	.72	8.50	13.71	80	POSE	1.72	16.03	21.91	100
AGR					KOCR	1.55	14.45	19.74	100
KOCR	1.22	14.40	23.24	95	AGR	.02	.19	.25	5
POSE	.95	11.22	18.09	90	AGSP	.22	2.05	2.80	20
FEID	.40	4.72	7.62	20	CAR	.65	6.06	8.28	55
DAUN	1.56	18.42	29.72	55	DAUN	3.47	32.33	44.22	65
CAR	.40	4.72	7.62	25	FEID	.22	2.05	2.80	_ 30
Grass Total	5.25		100.00		Grass Total	7.85	73.16	100.00	
РННО	.60	7.08	18.64	35	POGR	.45	4.19	15.62	70
ARHO	.91	10.75	28.28	45	РННО	.12	1.12	4.17	15
ERPU	.25	2.95	7.76	30	TAOF	.55	5.13	19.10	100
CEAR	. 40	4.72	12.42	40	ERCO	.12	1.12	4.17	15
TAOF	.05	.59	1.55	10	ANOC	.05	.47	1.74	10
POGR	.25	2.95	7.76	45	CEAR	.22	2.05	7.64	40
ANRO	.32	3.78	9.94	25	ANRO	.25	2.33	8.68	10
ACLA	.08	.94	2.48		CARO	.08	.75	2.78	10
ANOC	.02	.24	.62	5	ARCO	.84	7.81	29.15	85
ARCO	.20	2.36	6.21	25	ACLA	.08	.75	2.78	15
HYAC	.02	.24	.62	5	UNK#1	.12	1.12	4.17	_ 25
POT	.02	. 24	.62	5	Forb Total	2.88	26.84	100.00	
UNK#1	.02	.24	.62						
GRSQ	.08	.94	2.48		UNDERSTORY				
Forb Total	3.22		100.00	garanti .	TOTAL	10.73	100.00		
UNDERSTORY									

8.47 100.00

GRASS CREST DIV. EXCLOSURE

August 17, 1966

"E" sqvT

				+40			
		1965					
20.		6.24				*	
88.			***			. 2***	
2.0							
.72							
				YOSE			
	4.72						
	61.98	00.601	25_	Grass			
	Bà.r	18:84					
	10.75						
	4.72						
					80.		

8.47 100.00

Number

- 0917

- Big Horn

Description

- R92W T50N SE NW Sec. 14

tion

- 4200 ft.

ation Type

- Nuttall's Saltbush

Constructed

- 1947

ments

- Blading & Seeding in Water Spreader System in 1947

al Location

ects Established - 1965 - Inside Native, Outside Native, Inside Spreader, Outside Spreader - Follow the oiled road out of Manderson toward Hyattville and turn off of this road just before the highway crosses the No Wood River. Follow this road for about a mile to where it climbs on top of the hills and where a trail can be seen going northward. Follow this trail for 3 miles to the Horse Haven Exclosure which is to the east and in the valley below the

ridge on which the road follows. Going directly from Big Flat Exclosure to Horse Haven Exclosure, go south .9 mile on graded pipeline road to the crossroad and go east 2.6 miles and take right fork to SE and go 1.3 miles and take road to east going down into valley of exclosure

-BLM marker post 3 post "4" post 10'

Observed During 1965-1966

ron-bunch

ion hystrix

m arvense

ron smithii tectorum

lex nuttallii Lactuca integrata

junceus Rumex spp.

ron-rhizoms Lepidium densiflorum

Salsola kali

Chenopodium album Kochia scoparia

Halogeton glomeratus

Monolepis nuttalliana

thus petiolaris Atriplex argentea

August 14, 1965

Spreader

Spreader

	INSIDE					OUTSI	Œ		
	Cover % Ave.	Comp. all Under	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ATNU Shrub Total	23.80 23.80			85%	ATNU Shrub Total				
51HY Grass Total	.15	9.55	$\frac{100.00}{100.00}$	05	SIHY AGSM Grass Total	.20	1.25 1.25	1 <u>00.00</u> 1 <u>00.00</u>	10
LAIN Ann. Forbs Forb Total	1.32 .10 1.42	84.08 6.37 90.45	92.96 7.04 100.00	35 - ⁰⁵	CIAR HEPE	15.55 .15	97.19 .94	98.42 .95	55 15
UNDERSTORY TOTAL	1.57	100.00			UNK Forb Total	.10 15.80	98.75	100.00	05
					UNDERSTORY TOTAL	16.00	100.00		

August 14, 1965

Sereader

			.qmcD .Lls .rabaU							Cover- 2 Ave-			
N 274 - 4 4	· · · · · · · · · · · · · · · · · · ·	1.00			IsloT	Alzılı Shrub				23.80			
						STHY AGSN Grass			9,55				
						HEPE			54.06				
		00.001		15,80					100,001				

19

August 14, 1965

Native

Native

	INSIDE					OUTSID	E		
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ATNU Shrub Total	6.30			75%	ATNU Shrub Total	4.40			75%
No Grasses					No Grasses				
Ann. Forbs Forb Total	And the second second second second	$\frac{100.00}{100.00}$	-	05	No Forbs				
UNDERSTORY TOTAL	.025	100.00							

HORSE HAVES EXCLOSING

August 14, 1965

STATES

	distri					
Cord M Cord					Caver % Ave.	
	4.40	AIMU Shrub Total	151			
		Na Forbs				

.025 100.00

June 10, 1966

Spreader

Spreader

	INSIDE					OUTSID	E		
	Cover % Ave.	Comp. all Under	Comp. by group	% Freq.		Cover % Ave.	Comp. al Under.	Comp. by Group.	% Freq.
ATNU Shrub Total	30.95 30.95			85%	ELJU AGR-rh AGR-bu	.15 .12 .21	2.48 1.98 3.46	31.25 25.00 43.75	30% 15 5
ELJU BRTE	.40	27.03	100.00	5	Grass Total	.48	7.92	100.00	
Grass Total	.40	27.03	100.00		LAIN CIAR	.20	3.30 73.59	3.58 79.93	15 75
LAIN LEDE	1.06	71.62 1.35	98.15 1.85	55 5	RUM LEDE	.05	.83	. 90	5
Forb Total	1.08	72.97	100.00		HEPE SAKA	.40	6.60 1.65	7.17 1.79	30 10
UNDERSTORY TOTAL	1.48	100.00			CHAL KOS C	.20	3.30 2.48	3.58 2.69	15 15
					HAGL Forb Total	5.58	92.08	.36	5
					UNDERSTORY	6.06	100.00		
					TOTAL	0.00	100.00		

June 10, 1956

anhasan?

in an	TIKSINE					. (6.000	
1		Comp. by group	Ports				
			158				200
Intol's							
				AGK-bu			
		100.00					
LESOT :				KINI			
		:		16 S. T. S.			
		1.85					
IsloT				39.53			
TROTE							
				realigning			

3.5

HORSE HAVEN EXCLOSURE

June 10, 1966

Native

Native

Localitani	INSIDE		OUTSIDE			
	Cover % Ave.	Comp. Comp. all by Under. Group	% Freq.	Cover Comp. Comp. % all by Ave. Under. Group	% Freq.	
ATNU Shrub Total	18.35 18.35		90% ATNU Shrub Total	10.75 10.75	85%	
MONU LEDE Forb Total	.06 .02	75.00 75.00 25.00 25.00 100.00 100.00	1101.0		15	
UNDERSTORY TOTAL	.08	100.00 100.00	UNDERSTORY TOTAL	.08 100.00 100.00		

HORSE HAVEN EXCLOSURE

June 10, 1966

Nacive

	Comp, Comp, all by Under, Group				Groid på relieg	, , , , , , , , , , , , , , , , , , ,
[870]		ÄÖK	ATNU Shrwb Total			85%
Isa	75.00 75.00 25.00 25.00 100.00 110.00		HONU Forb Total			
	100.00 100.00					

MUD SPRINGS EXCLOSURE (Livestock)

Number

- 0103

- Natrona - R79W T29N

Description ition

- 7400 ft.

ation Type

- Grass - Sagebrush

Constructed

- 1965

- Furrowing in 1953

ects Established - 1965 - Inside Furrowed, Inside Non Furrowed, Outside Furrowed, Outside Non Furrowed

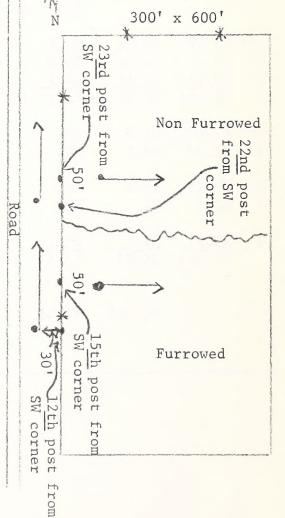
al Location

the Medicine Bow Highway 487 at 7 the BLM sign of the Bates Hole Conservation Area, which is about Go southeast on the Bates Hole Stock the exclosure. (2) Turn east off the miles south of the Highway 487-220.

 W_2^1 SE4 Sec. 22

7.5 miles north of the BLM Bates Hole Go southeast for 14 miles (the Owl Draw Exclosure is passed on this road 8.2 miles from the turnoff), take a right fork for 2.9 miles, take another right fork for .7 miles to the Mud Springs Exclosure.

- One can get to this exclosure by either of two routes: (1) Turn off 55 miles north of Medicine Bow. Driveway Road for 13 miles to Medicine Bow Highway 487 at 8.9 Junction. This turnoff is Stock Driveway Road turnoff.



s Observed During 1965-1966

isia tridentata othamnus viscidiflorus isia tripartita

yron smithii

ecunda endleriana ria cristata ion hystrix hoodii

eron spp. maria rosea iria congesta igalus miser

atheon spp. rainia pinnata Lesquerella alpina Arenaria hookeri

Trifolium spp. Astragalus spp.

Cordylanthus ramosus Calochortus nuttallii

Allium textile Antennaria dimorpha

Polygonum spp. Salsola kali

Monolepis nuttalliana

Arnica fulgens Lappula redowskii Hordeum jubatum

MUD SPRINGS EXCLOSURE

July 21, 1965

INSIDE FURROWED

OUTSIDE FURROWED

Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
9.75 .40 10.15			55 5	ARTR ARTR2 Shrub Total	6.25			40
.05 .10 4.50 5.20	.36 .72 32.21 37.22	49.29	85	AGSM POSE POFE Grass Total	3.65 6.05 1.43 11.13	28.63 47.44 11.22 87.29	32.79 54.36 12.85 100.00	100 90 15
3.00	75.52	100.00 87.73	55	PHHO TRI ARCO	.65 .75	5.10 5.88	40.12 46.31	30 55
.25 .02 .02	1.79 .14 .14 .36	7.31 .58 .58 1.46	45 5 5 5	AST #1 AST #2 ALTE POL	.18 .02	1.41 .16	11.11 1.23 1.23	20 5 5
3.42	24.48	$\frac{2.34}{100.00}$	10	Understory Total	1.62	100.00	100.00	
	% Avg. 9.75 .40 10.15 .05 .10 4.50 5.20 .70 10.55 3.00 .25 .02 .02 .05 .08	% all Avg. Under. 9.75 .40 10.15 .05 .36 .10 .72 4.50 32.21 5.20 37.22 .70 5.01 10.55 75.52 3.00 21.48 .25 1.79 .02 .14 .05 .36 .08 .57	% all by Avg. Under. Group 9.75 .40 10.15 .05 .36 .47 .10 .72 .95 4.50 32.21 42.65 5.20 37.22 49.29 .70 5.01 6.64 10.55 75.52 100.00 3.00 21.48 87.73 .25 1.79 7.31 .02 .14 .58 .02 .14 .58 .05 .36 1.46 .08 .57 2.34	% all by % Avg. Under. Group Freq. 9.75 .40 10.15 .05 .36 .72 .95 5 4.50 32.21 42.65 100 5.20 37.22 49.29 85 .70 5.01 6.64 30 10.55 75.52 100.00 3.00 21.48 87.73 55 .25 1.79 7.31 45 .02 .14 .58 5 .02 .14 .58 5 .05 .36 1.46 5	% all by % Avg. Under. Group Freq. 9.75 .40 55 ARTR 10.15 5 ARTR2 Shrub Total .05 .36 .47 5 AGSM .10 .72 .95 5 POSE 4.50 32.21 42.65 100 POFE 5.20 37.22 49.29 85 Grass Total 10.55 75.52 100.00 PHHO TRI 3.00 21.48 87.73 55 ARCO .25 1.79 7.31 45 AST #1 .02 .14 .58 5 ALTE .05 .36 1.46 5 POL Forb Total .08 .57 2.34 10 3.42 24.48 100.00 Understory	% Avg. all by Group Freq. % Avg. 9.75 .40 55 ARTR ARTR2 6.25 10.15 .36 .47 5 AGSM AGSM AGSM AGSM AGSM AGSM AGSM AGSM	% all Avg. by Teq. % Avg. all Avg. under. 9.75 .40 10.15 55 ARTR 6.25 ARTR 6.25 .05 .36 .47 5 Shrub Total 6.25 AGSM 3.65 28.63 .10 .72 .95 5 POSE 6.05 47.44 4.50 32.21 42.65 100 POFE 1.43 11.22 5.20 37.22 49.29 85 Grass Total 11.13 87.29 Grass Total 11.13 87.29 .70 5.01 6.64 30 PHHO 6.65 5.10 10.55 75.52 100.00 PHO 6.5 5.10 TRI 7.5 5.88 3.00 21.48 87.73 55 ARCO AST #1 1.8 1.41 .25 1.79 7.31 45 AST #1 1.8 1.41 AST #2 .02 .16 .02 .14 .58 5 ALTE ALTE .05 .36 1.46 5 POL 6.2 1.6 Forb Total 1.62 12.71 .08 .57 2.34 10 Understory	% all by Avg. Under. % all by % Avg. Under. % all by Under. % all by Avg. Under. % all by Under

THE SPRINGS ENCLOSURE

July 21, 1965

OUTSIDE FURROWED

THE FURNOWED

					Comp. all Under.		
						9.75	
						04.	
						21.01	Intol
						4.50	
00.001			Gross			5.20	
AND DAILS.			00010				
	5.10						Total
	5.83						
	20.00			87.73	84.15		
				7.31	1.79		
				88.	AL.		
				.58	AI.		
		.12					-
				2.34			
				100.00	84.45		
					110000		Andus
							Kxox

MUD SPRINGS EXCLOSURE

July 21, 1965

INSIDE NON-FURROW

OUTSIDE NON-FURROW

	Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		ž.	Cover %	Comp. all Under	Comp. by Group	% Freq.
ARTR Shrub Total	11.65 11.65			50	ARTR CHVI Shrub T	otal	$\frac{14.22}{.50}$ $\frac{.50}{14.72}$			50 10
AGSM SIHY POSE POFE KOCR Grass Total	3.85 .20 6.15 2.55 1.60 14.35	24.60 1.28 39.30 16.29 10.22 91.69	26.83 1.39 42.86 17.77 11.15 100.00	100 10 100 70 45	AGSM POSE POFE KOCR SIHY Grass T	otal	1.70 4.30 1.95 1.52 .05	12.35 31.24 14.16 11.03 .36 69.14	17.86 45.16 20.48 15.97 .53	
PHHO TRI ERI #1 DOD Forb Total	1.00 .23 .05 .02 1.30	6.39 1.47 .32 .13 8.31	76.92 17.69 3.85 <u>1.54</u> 100.00		PHHO TRI AST #1 AST #2 CORA CANU		2.55 .15 .08 .25	18.51 1.09 .58 1.82 .73	60.00 3.53 1.88 5.88 2.35	30 10 10
Understory Total	15.65	100.00			ERI #1 ALTE ANRD ANDI Forb To	otal	.02 .05 1.00 .05 4.25	.15 .36 7.26 .36 30.86	.47 1.18 23.53 1.18 100.00	10 5 5
					Understo Total	ory	13.77	100.00		

AUDI SPRINCE EXCLOSURE

July 21, 1965

INCLUDE MON-PURROW

		ACSN POSE FOTE TOCK SIMY SIMY Grasm Total	26.63 1.39 42.86 17.77 11.15		
		PATE AT COMA COMA COMA COMA ATTE			
	08.7 30.85 30.85 00.001				

MUD SPRINGS

August 22, 1966

INSIDE FURROWED

OUTSIDE FURROWED

		Cover % Avg.	Comp: all Under.	Comp. by Group	% Freq.			Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ARTR CHVI Shrub To	otal	9.82 .10 9.92			70 5	ARTR ARTR2 Shrub	Total	3.88 .20 4.08			55 5
AGSM POSE POFE KOCR		2.92 3.56 .62	33.07 40.32 7.02	40.28 49.10 8.55	95 90 20	AGSM POSE POFE Grass	Total	2.80 3.85 .30 6.95	35.90 49.35 3.85 89.10	40.29 55.39 4.32 100.00	100
SIHY Grass To	otal	7.25	$\frac{1.70}{82.11}$	$\frac{2.07}{100.00}$	10	PHHO ARCO		.73	9.35	85.89	35
РННО		1.41	15.96	89.25	45	ASMI2		.08	1.03	9.41	
ASMI2		.05	.57	3.16	5	DOD		.02	. 26	2.35	5
ARHO		.10	1.13	6.32	5	DEPI		.02	. 26	2.35	5
LEAL Forb Tot	tal	$\frac{.02}{1.58}$	$\frac{.23}{17.89}$	$\frac{1.27}{100.00}$	5	Forb	Total	.85	10.90	100.00	
Underston Total	сy	8.83	100.00			Unders Total	tory	7.80	100.00		

PANTERS (IEI)

August 22, 1966

HENDERHIE MUISTUD

CENTRAL TOTAL

9.82 70 ARTR 2.88 2.88 2.55				Comps all Under.	
2.92 33.07 AO.28 95 AGSH 2.80 35.98 AO.29 180 3.56 AO.32 A5.10 90 POSE 3.85 A9.35 55.39 UN .62 7.02 8.55 20 POSE 3.95 89.10 100.00 .15 1.70 2.07 10 PERO .73 89.15 100.00 1.41 15.96 89.25 A5 ASKI2 .08 1.03 9.41 10 .10 1.13 5.32 5 DEFI .02 .02 .25 2.35 3 .10 1.13 5.32 5 DEFI .02 0.02 .25 2.35 3 .10 1.13 5.32 5 DEFI .02 0.02 .25 2.35 3 .10 1.13 5.32 5 DEFI .02 0.02 .02 .26 2.35 3 .10 1.13 5.32 5 DEFI .02 0.00 .02 .26 2.35 3 .10 1.13 5.32 5 DEFI .00 0.00 .00 .00 .00 .00 .00 .00 .00 .					
2.92 33.07 A0.28 95 AGSN 2.80 35.90 A0.28 100 3.56 A0.32 A9.10 90 POSE 3.85 A9.35 95.39 D0 .62 7.02 8.55 20 POSE 30 30 3.65 A9.35 95.39 D0 .62 8.55 20 POSE 30 30 30 3.65 A9.35 9.35 A9.35 D0.00 .63 1.70 2.07 10 .64 7.25 89.10 100.00 .73 9.35 89.89 33 .84 100.00 .85 3.16 5 000 .02 .26 2.35 3 .03 1.36 5 000 .04 10 .05 .57 3.16 5 000 .06 .07 2.35 3 .07 1.36 5 000 .08 1.09 100.00 .09 .20 1.35 5 10.90 100.00 .00 1.36 17.89 100.00					
3.56					Intal
3.56					
.62 7.02 8.55 20 POFE .30 3.65 4.32 10 Crass Total 6.95 89.10 100.00					
1.5 1.70 2.07 10 100.00 PBR0 .73 9.35 85.89 33 ARGO ARGO .05 .05 .05 ARGO ARGO .05 .05 ARGO .05 .05 .05 .05 .05 .05 .05 .05 .05 .05					
1.5 1.70 2.07 10 PHRO					
1.41 7.25 82.11 100.00 ARGO .73 9.35 85.89 33 ARGO .73 1.41 15.96 89.25 A5 ARGO .02 .08 1.03 0.41 10 .05 .05 .05 .00 .02 .05 2.35 .00 .00 .02 .05 2.35 .00 .00 .02 .05 2.35 .00 .00 .00 .00 .00 .00 .00 .00 .00 .0					
1.41 15.96 89.25 A5 ASMI2 .08 1.03 0.41 10 .05 .05 .05 2.35 3 .05 1.13 6.32 5 0.281 .02 .02 .26 2.35 5 .0281 .02 .02 .26 2.35 5 .0281 .02 .02 .26 2.35 5 .0281 .03 1.27 5 100.00 100.00					
.05 .57 3.16 5 000 .02 .26 2.35 3 .10 1.13 6.32 5 029					
.10 1.13 6.32 5 DEPI .02 .26 2.15 5 .07 .02 .25 2.15 5 .07 .02 .23 1.27 5 Forb Total .85 70.90 100.00 124 125 1.58 17.89 100.00					
-02 .23 1.27 5 Forb Total .85 70.90 100.00					

MUD SPRINGS EXCLOSURE

Aug. 22, 1966

INSIDE NON-FURROWED

OUTSIDE NON-FURROWED

	Cover % Ave.	Comp. all Under.	Comp. by Group	% freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% freq.
ARTR Shrub Tota	11.08 11.08			60%	ARTR CHVI	11.98 .22 12.20			60% 10
AGSM	2.10	18.10	19.77	100					
POSE	5.15	44.40	48.50	95	AGSM	1.15	11.62	15.13	90
POFE	1.80	15.52	16.95	65	POSE	3.15	31.81	41.45	95
KOCR	1.52	13.10	14.31	65	POFE	2.05	20.71	26.97	70
SIHY Grass Tota	.05 1 10.62	$\frac{.43}{91.55}$	100.00	5	KOCR Grass total	7.60	$\frac{12.63}{76.77}$	$\frac{16.45}{100.00}$	80
РННО	.96	8.28	97.96	.45	РННО	1.20	12.11	52.18	60
ERI	.02	.17	2.04	5	ERI	.05	.51	2.17	10
Forb Total	.98	8.45	100.00		ANRO Forb Total	$\frac{1.05}{2.30}$	$\frac{10.61}{23.23}$	45.65 100.00	10
UNDERSTORY TOTAL	11.60	100.00			UNDERSTORY TOTAL	9.90	100.00		

WHEN SPRINGS EXCLOSING

Aug. 22, 1966

INSIDE NON-PURRONEE

	Coup.				Comp. all Dader.		
(Q)				800	THE STATE OF	11.08	
			AGEN POSE POSE ROCE Grass cotal			2,10 5,15 1,80 1,52 1,52 10,62	
			UNDERSTORY		100,00		

```
OWL DRAW EXCLOSURE (Livestock & Deer)
                 0104
Jumber

    Natrona

                - R79W T30N
                                NE NE Sec. 19
Description

    6500 ft.

tion
ation Type
                  Sagebrush - Juniper
                - 1965
Constructed
                - Fencing (Deer & Stock) & Site Variations
nents
ects Established - 1965
    #1 - Inside Deer Exc. - ARNO Type - East Exp.
    #2 - Outside Deer Exc. - ARNO Type - East Exp.
an.
    #3 - Inside Deer Exc. - JUOS-ARNO Type - NE Exp.
an.
    #4 - Outside Deer Exc. - JUOS-ARNO Type - NE Exp.
an.
   #5 - Inside Deer Exc. - ARTR Type - North Exp.
an.
   #6 - Inside Deer Exc. - ARNO Type - North Exp.
an.
   #7 - Outside Stock Exc. - ARNO-JUOS Type - North Exp.
an.
   #8 - Inside Stock Exc. - ARNO Type - North Exp.
an.
an. #9 - Inside Stock Exc. - ARTR Type - NW Exp.
                                                                           300' x 600'
an. #10 - Outside Stock Exc. - ARTR Type - NW Exp.
                - Turn east off the Medicine Bow Highway
al Location
                   at 8.9 miles south of the Highway 487-
                                                                8th post
                                  This turnoff is just east
                   220 junction.
                   of the Trailer House School. Go south-
                   eastward on the Bates Creek Road for 8.2
                                                                         Livestock fence
                   miles to the exclosure. The Owl Draw
                   Exclosure can also be reached from the
                   Mud Springs Exclosure thusly:
                   travel eastward for .7 mile,
                                                                                          -4th
                   take left fork and travel north
                                                                                          post
                   for 2.9 miles, take left fork for
                   about 6 miles going westward to the
                   Owl Draw Exclosure.
ts Observed During 1965-1966
                         Balsamorhiza sagittata
nisia tridentata
                         Astragalus miser
perus osteosperma
                         Arenaria hookeri
nisia nova
                                                                      ARNØ
                         Astragalus drummondii
sothamnus viscidiflorus
                          Chenopodium album
errezia sarothrae
                         Astragalus purshii
hia tridentata
                                                          285
                                                                        Deer fence
                          Sedum stenopetalum
aeranthera grindeloides
                                                                               ARNO
                         Machaeranthera grindeloides
perus scopulorum
                          Linum perenne
pyron smithii
                                                                               ARNO4
                          Compositae fam.
secunda
                                                                                2
                          Allium cernnum
fendleriana
                                                                              Arenaria nuttallii
                                                   Delphinium bicolor
                          Orobanche fasciculata
                                                                              Vicia americana
eria cristata
                                                   Gaura coccinea
                          Phlox multiflora
x filifolia
                                                                              Helianthella
                                                   Castilleja spp.
                          Haplopappus acaulis
pyron spicatum
                                                                                   uniflorus
                                                   Astragalus missouriensis
                          Penstemon spp.
a comata
                                                   Draba spp.
                          Hymenoxys acaulis
is acuminatus
                                                   Astragalus striatus
                          Tragopogon dubius
Illaria vivipara
                                                   Linum lewisii
                          Veronica spp.
geron spp.
                                                   Gilia congesta
                          Sphaeralcea coccinea
ox hoodii
                                                   Ribes cereum
                          Lewisia redviva
folium spp.
                                                   Chenopodium fremontii
                          Crepis spp.
                                                   Antennaria anaphaloides
elina microcarpa
                          Antennaria dimorpha
ragalus spatulatus
                                                   Lesquerella ludoviciana
```

Physaria australis

Lesquerella spp.

Cryptantha flavoculata

Linum lewisii

elliferae fam.

geron pumilus

ntia polyacantha

ochortus nuttallii

Chenopodium leptophyllum

Delphinium nelsonii

Stipa viridula

to the said supply and an an expension

Tran. #1
Arno-type
East Exposure

July 21, 1965

Tran. #2
Arno-type
East Exposure

INSIDE DEER Exclosure

OUTSIDE DEER Exclosure

	Cover % Ave.	Comp all Under.	Comp by Groups	% Freq.		Cover % Ave.	Comp all Under.	Comp by Groups	% Freq.
ARNO	13.10			80%	ARNO	6.50			60%
PUTR	1.15			15	JUOS	1.25			05
MAGR					ARTR	2.20			10
GUSA	05			05	MAGR	.13			10
Shrub tota	14.30				Shrub Total	10.08			
AGSM	1.50	22.54	38.97	50	AGSP	.20	3.03	4.47	20
AGSP	.60	9.02	15.58	40	AGSM		20.00	29.53	75
POSE	.98	14.74	25.45	60	POSE		24.24	35.80	75
KOCR	.17	2.56	4.42	15	POFE	.10	1.52	2.24	10
CAFI	.25	3.76	6.49	05	KOCR	.65	9.85	14.54	40
POFE	.15	2.26	3.90	10	CAFI				
STCO	20	3.01	5.19	20	STCO	Printed and Park Street, Stree	9.09	13.42	40
Grass Tota	al 3.85	57.89	100.00		Grass Total	4.47	67.73	100.00	
ARHO	1.00	15.05		30	ASMI2	.15	2.27	7.04	10
РННО	.93	13.98		35	ARHO	.43	6.51	20.19	25
ASMI2	.08	1.20		10	РННО		12.13	37.55	40
ERPU	. 47	7.07		15	DEBI	. 30	4.55	14.08	25
TRDU	.08	1.20		10	UMB	.02	.30	.94	05
ASPU	.20	3.01		05	ERPU	.05	.76	2.35	05
TRI	.02	.30		05	SEST	.02	, 30	.94	05
UMB	.02	.30		05	PEN	.05	.76	2.35	05
Forb Tota	1 2.80	42.11	100.00		GACO	.02	.30	.94	05
					ALCE	.02	.30	.94	05
					CRE	.05	.76	2.35	05
UNDERSTORY	promise in case of feet the feet	total in the administra			TRI	.02	.30	.94	05
TOTAL	6.65	100.00			CAS	.05	.76	2.35	05
					ASMI	.15	2.27	7.04	05
					Forb Total	2.13	32.27	100.00	
					UNDERSTORY	gagen thi	except on arhibid		
					TOTAL	6.60	100.00		

OUL DEAN EXCLOSURE

Trom, #1 Arno-type

July 21, 1965

Iran. #2 Arno-type East Excosure

SUPERINE DEER Exclosure

INSIDE DEER Exclosure

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UNDERSTORY

July 21, 1965

Tran#3 Jucs-Arnotype Northeast Exposure

Tran #4 Juos-Arnotype Northeast Exposure

INSIDE

OUTSIDE

		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
JUSC		.25			05%	ARNO	6.15			40
ARNO		8.55			50	CHVI				
PUTR						PUTR	. 30			05
JUOS ARTR		5.00			05	Shrub Total	6.45			
Shrub	Total	13.80				AGSP	1.85	30.93	70.34	80
						POSE	. 35	5.85	13.31	15
AGSM		.12	1.87	2.71	15	KOCR	.23	3.85	8.75	20
AGSP		1.78	27.70	40.18	70	AGSM	.05	.84	1.90	05
POSE		.98	15.24	22.12	70	POFE	.15	2.51	5.70	05
KOCR		. 35	5.44	7.90	25	Grass Total	2.63	43.98	100.00	
CAFI		.35	5.44	7.90	10					
POFE		.85	13.21	19.19	20	HAAC	.10	1.67	2.99	05
Grass	Total	4.43	68.90	100.00		ARHO	.80	13.38	23.88	25
						РННО	1.05	17.56	31.34	20
ERPU		.02	.31	1.00	05	OPPO				
ARHO		.90	13.99	45.00	25	TRI	.05	.84	1.49	10
РННО		.15	2.33	7.50	10	ASMI2	.60	10.03	17.91	35
TRI		.09	1.40	4.50	15	PHMU	.45	7.52	13.43	15
ASMI2		.05	.78	2.50	05	PHAU	.05	.84	1.49	05
PEN		.02	.31	1.00	05	CRE	.02	.33	.60	05
LES		.02	.31	1.00	05	ERPU	.15	2.51	4.48	10
PHAU		.05	.78	2.50	10	LES	.08	1.34	2.39	10
PHMU		.30	4.67	15.00	05	Forb Total	3.35	56.02	100.00	
HAAC		.40	6.22	20.00	10					
Forb 7	[otal	2.00	31.10	100.00		UNDERSTORY TOTAL	5.98	100.00		
UNDERST	TORY									

TOTAL 6.43 100.00

BRUESTAN SACTORDER

July 21, 1965

Team #4 Juos-Armetype Wortheast Expassis

Inotype

INSIDE

	Comp. hy Group	Freq.			
			Shequ Total		
			a sand		
			CRE		

6.43 100.00

July 27, 1965

Tran. #5 Inside Deer Exclosure ARTR Type North Exposure Tran. #6
Inside Deer Exclosure
ARNO Type
North Exposure

	INSIDE					OUTSID	E		
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ARTR	1.70			20	ARNO	6.45			70
ARNO					CHVI	.10			05
CHVI					GUSA	.10	-		05
Shrub Total	1.70				Shrub Total	6.65			
AGSM	2.70	25.40	36.73	100	AGSP	2.60	25.85	54.16	85
POSE	2.95	27.75	40.13	100	AGSM	.50	4.98	10.42	30
POFE	1.70	15.99	23.14	65	POSE	.50	4.98	10.42	35
Grass Total	7.35	69.14	100.00		POFE	.70	6.97	14.58	35
					CAFI				
РННО	1.40	13.17	42.68	45	STCO	.30	2.99	6.25	10
OPPO					KOCR	.20	1.99	4.17	10
LERE	.10	.94	3.05	20	Grass Total	4.80	47.76	100.00	
UNK	.08	.75	2.44	10					
MAVI					ARHO	2.80	27.86	53.36	70
CRE	.08	.75	2.44	15	РННО	1.00	9.95	19.04	35
ANDI	1.60	15.06	48.78	15	COPA				
SPCO					ASSP	1.15	11.44	21.90	35
TRI	.02	.19	.61	05	MAGR	.18	1.79	3.42	20
Forb Total	3.28	30.86	100.00		TRDU	.05	.50	.95	05
					UMB	.07	.70	1.33	15
UNDERSTORY					Forb Total	5.25	52.24	100.00	
TOTAL	10.63	100.00			UNDERSTORY	10.05	100.00		
					TOTAL	10.03	100.00		

BRITADIONE VANO INCIDEN

July 27, 1965

Deer Exclosure

Inside Near Exclosure ARNO Type North Exposure

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July 27, 1965

Tran. #8
Inside stock exclosure
ARNO type
North Exposure

Tran. #7
Outside stock exclosure
ARNO-JUOS type
North Exposure

INSIDE

OUTSIDE

		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARNO	_	8.68			70	ARNO	5.50			65
ARTR		. 25			05	JUOS				
JUOS						CHVI	25			05
GUSA		.55			10	GUSA	1.10			
CHVI						ARTR				
Shrub	Total	9.48				Shrub Total	6.85			30
AGSP		2.10	28.07	55.56	90	AGSP	2.30	18.81	40.01	80
AGSM		.15	2.01	3.97	15	AGSM	.65	5.31	11.30	30
POSE		1.25	16.71	33.07	70	POSE	.90	7.36	15.65	40
POFE		.23	3.07	6.08	15	POFE	1.30	10.63	22.61	40
KOCA		.05	.67	1.32	05	KOCR	.60	4.91	10.43	35
CAFI						Grass Total	5.75	47.02	100.00	
Grass	Total	3.78	50.53	100.00						
2						UMB	.08	.65	1.23	15
ASPU		.125	1.60	3.38	10	HAAC	.65	5.31	10.03	15
PHHO		2.50	33.42	67.55	45	ARHO	1.35	11.04	20.83	45
ARHO		.30	4.01	8.11	35	РННО	1.30	10.63	20.06	60
MAGR		.15	2.01	4.05	10	ASMI2	.78	6.38	12.04	60
ASMI2		.20	2.67	5.41	10	ALCE				
ERI#2		.20	2.67	5.41	05	CANA	1.5	1 00	0 01	25
LIPE		.05	.67	1.35	05	LIPE	.15		2.31	25 25
ASSP		.05	.67	1.35	05	MAGR	.22	1.80	1.54	10
COM#1		.05	.67	1.35	05	ASSP	1.60	13.07	24.70	20
ALCE		.025	. 36	.68	05	PHMU	1.00	13.07	24.70	20
UMB		.025	. 36	.68	05 05	ORFA BASA				
TRI	1	.025	.36	.68	- 05	PEN	.20	1.64	3.09	05
Fort	Total	3.70	49.47	100.00		HYAC	.05	.41		05
IMPEDO	(E) DV					Forb Total	6.48	52.98		
UNDERS		7.48	100.00			TOTO TOTAL	0.40	2,0	7	
TOTAL		7.40	100.00			UNDERSTORY				
						TOTAL	12.23	100.00		

OWN DIKAN BOICEOSURE

July 27, 1965

stock exclosure

ran. e. Ontalde stock esclosur ARNO-JROS type North Exposure

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	18.81					
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		5.75				
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					2.50	
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					.05	

July 27, 1965

Tran. #9 Inside stock exclosure ARTR type Northwest exposure

Tran. #10 Outside stock exclosure ARTR Type Northwest Exposure

INSIDE

OUTSIDE

		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ARTR		14.25			45%	ARTR	21.25			25%
CHVI	_					JUOS				
Shrub	Total:	14.25				ARNO				
						CHVI	-			
AGSP		.22	2.62	3.09	20	Shrub Total	21.25			
AGSM		1.38	16.43	19.35	95					
POSE		1.55	18.45	21.74	80	POSE	1.85	17.02	25.34	80
POFE		3.98	47.38	55.82	75	POFE	3.40	31.28	46.58	85
KOCR	_		-			KOCR				
Grass	Total	7.13	84.88	100.00		AGSM	2.05	18.86	28.08	100
						Grass Total	7.30	67.16	100.00	
UNK		.56	6.67	44.11	85					
TRI		.10	1.19	7.87	20	РННО	2.90	26.68	81.24	75
CRAC		.02	.24	1.57	05	UNK	. 38	3.50	10.64	75
BASA						TRI	.12	1.10	3.36	25
OPPO						ASSP	.02	.18	. 56	05
UNK		.10	1.19	7.87	20	OPPO	.05	.46	1.40	05
ASDR		.02	.24	1.57	05	ERPU	.05	.46	1.40	05
PHHO		.40	4.76	31.50	50	UNK	.05	.46	1.40	10
CHAL		.02	.24	1.57	05	Forb Total	3.57	32.84	100.00	
ARHO		.05	.59	3.94	05					
Forb	total	1.27	15.12	100.00		UNDERSTORY TO	TAL			
							10.87	100.00		
UNDERS	TORY									

UNDERSTORY
TOTAL 8.40 100.00

OUT DHAW EXCLOSURE

July 27, 1965

Tran. V10 Outside stock exclosure ARTE Type Worthwest Exposure

e stock exclosure type test exposure

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				· Danes	Comp. by Group.			
		21.25	N. P. C.	3.2.3	**************************************			
			BOATU ARMO					
			Shrub Toral		0.04			
					14.33			
			FOSE		21.74		1,55	
				75	58.82			
			ROOR					
								8
					FE 44			
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8.40 100.00

Tran. #1 Arno Type East Exposure Aug. 8, 1966
Tran. #2
Arno Type
East Exposure

INSIDE

OUTSIDE

	Cover % Ave.	Comp. all under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARNO	11.33			75%	ARNO	11.42			85%
PUTR	2.30			15	JUOS	.25			5
GUSA	.02			5	GUSA	.10			5
JUOS	.15	_		5_	MAGR	.18			25
Shrub Total	13.80				Shrub Total	11.95			
AGSP	1.20	26.27	44.12	85	POFE	.05	1.35	2.27	5
POSE	. 85	18.60	31.25	75	STCO	.05	1.35	2.27	10
STCO	.15	3.28	5.51	20	KOCR	.15	4.05	6.82	20
CAFI	.25	5.47	9.19	5	POSE	.70	18.92	31.82	75
KOCR	.22	4.81	8.09	30	AGSP	1.10	29.74	50.00	95
AGSM	05	1.09	1.84	5	CAFI	.15	4.05	6.82	5
Grass' Tota	1 2.72	59.52	100.00		Grass Total	2.20	59.46	100.00	
РННО	.71	15.53	38.39	55	CRFL	.02	.54	1.33	5
CRAC	.10	2.19	5.41	20	ASPU	.08	2.16	5.33	15
ARHO	.42	9.19	22.70	40	UMB	.15	4.05	10.00	20
UMB	.08	1.75	4.32	15	PEN	.08	2.16	5.33	10
ERPU	.25	5.47	13.51	10	ARHO	.32	8.65	21.34	30
SEST	.02	.44	1.08	5	ERPU	.05	1.35	3.33	5
ASMI2	.10	2.19	5.41	10	РННО	.54	14.60	36.02	40
TRDU	.08	1.75	4.32	15	COPA	.02	.54	1.33	5
PHAU	.02	.44	1.08	. 5	HAAC	.20	5.41	13.33	5
TRI	.02	.44	1.08	5	PHAU	.02	.54	1.33	5
MAVI	.05	1.09	2.70	5	CAMI	.02	.54	1.33.	5
Forb Total	1.85	40.48	100.00		Forb Total	1.50	40.54	100.00	
UNDERSTORY					UNDERSTORY				
Total	4.57	100.00			Total	3.70	100.00		

ug. 8, 1966 Tran. #2 Arao Type

rpe cposure

NSIDE

				Comp. by Group			
			757				
	81.						
		Shrub Total					
		FOFE	85				
			24				
		KOCK	20	5,51			
						.22	
					15.53		
			20			01.	
				22,70			
				13.51			
					44.		
				5.41	2.19		
				1.08		.02	
			5				

August 8, 1966

Tran. #3
Juos-Arno Type
North East Exposure

Tran. #4
Arno-Juos Type
North East Exposure

INSIDE

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ARNO	8,48			60	ARNO	5.00			40%
JUOS	5.20			10	JUOS				
Shrub Total	13.68	-			PUTR	.15			5
					Shrub Total	5.15			
KOCR	.38	7.55	12.75	45					
AGSP	1.38	27.43	46.31	80	AGSP	.93	24.03	60.00	95
POSE	.52	10.34	17.45	45	KOCR	.12	3.10	7.74	20
POFE	.70	13.92	23.49	25	POSE	.35	9.04.	22.58	20
Grass Total	2.98	59.24	100.00		POFE	.15	3.88	9.68	10
					Grass Total	1.55	40.05	100.00	
PEN	.05	.99	2.44	10					
РННО	.59	11.75	28.76	35	PHMU	.25	6.46	10.78	15
PHAU	.08	1.59	3.91	15	ERPU	.05	1.29	2.16	5
LES	.02	.40	.98	5	ASMI2	.12	3.10	5.17	25
ERPU					PHAU	.02	.52	.86	5
PHMU	. 32	6.36	15.61	10	РННО	.82	21.18	35.34	50
ASSP	.05	.99	2.44	10	ASSP	.05	1.29	2.16	10
UNK	.02	.40	.98	5	MAGR	.02	.52	.86	5
TRI	.05	.99	2.44	10	ARHO	. 39	10.08	16.81	25
HAAC	.30	5.96	14.63	10	CRAC	.02	.52	.86	5
ARHO	.50	9.94	24.39	20	LILE	.02	.52	.86	5
SEST	.02	.40	.98	5	ORFA	.02	.52	.86	5
CAMI	.05	.99	2.44	10	CRFL	.02	.52	.86	5
Forb Total	2.05	40.76	100.00	•	UMB	.05	1.29	2.16	10
					COPA	.02	.52	.86	5
UNDERSTORY					TRI	.05	1.29	2.16	10
TOTAL	5.03	100.00			UNK2	.10	2.58	4.31	5
					LES	.10	2.58	4.31	10
					HAAC	.20	5.17	8.62	. 5
					Forb Total	2.32	59.95	100.00	

UNDERSTORY

TOTAL 3.87 100.00

						OUTSTUO	9		
		Comp.	Comp . by	Freq.				Semp. by Group.	
		100	Group	4.					EAS
					FUER				
		7,55							
					ASOA		24,03		
		10,34							
LazoT									
			18.6	1.5				2.16	
					ASHIZ		3.10	71,7	
					PELAU				
	.32		15,61		OHSE				
						20.			
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IsjoT		40.76							
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August 8, 1966

Tran. #5
Inside Deer Exclosure
ARTR Type
North Exposure

Tran. #6
Inside Deer Exclosure
ARNO Type
North Exposure

INSIDE

OUTSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
ARTR	1.58			30	ARNO	6.08			60
Shrub Total					ARTR	.10			5
					GUSA	.10			10
AGSM	1.20	16.39	23.53	95	Shrub Total	6.28	-		
POSE	2.20	30.06	43.14	95					
POFE	1.70	23.22	33.33	75	POFE	.32	4.43	9.64	10
Grass Total	The Real Property lies and the Personal Property lies and the	69.67	100.00		AGSM	.52	7.20	15.66	50
					STCO	.08	1.11	2.41	15
РННО	1.00	13.66	45.04	55	AGSP	1.28	17.73	38.56	65
VER	.15	2.05	6.76	30	POSE	1.12	15.51	33.73	55
CRAC	.15	2.05	6.76	30	Grass Total	3.32	45.98	100.00	
UNK2	.87	11.89	39.19	40					
SPCO	.05	.68	2.25	10	ARHO	2.25	31.16	57.69	65
Forb Total	2.22	30.33	100.00		РННО	.70	9.70	17.95	30
					ASSP	.48	6.65	12.31	25
UNDERSTORY					ERPU	.28	3.88	7.18	25
TOTAL	7.32	100.00			UNK#1	.02	.28	.51	5
					UMB	.05	.69	1.28	10
					MAGR	.12	1.66	3.08	25
					Forb Total	3.90	54.02	100.00	
					UNDERSTORY TOTAL	7.22	100.00		

MAILEO DESE PART DELL'A

August 5, 1966

Tran, M6 Inside Deer Exclosure ARHO Type Horth Expanse

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	43.14					
	6,76		Grass Idtal			

August 9, 1966

Tran. #8
Inside stock Exclosure
ARNO Type
North Exposure

Tran. #7
Outside Stock Exclosure
ARNO-JUOS Type
North Exposure

Inside

Outside

		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.
ARTR		.50			5%	ARNO	4.85			70%
ARNO		9.40			7 5	GUSA	.50			30
CHVI		.20			5	CHVI	.10			5
Shrub	Total	10.10			5	Shrub Total	5.45			
KOCR		.02	.34	.56	5	KOCR	.25	3.92	14.53	40
AGSP		.98	16.90	27.37	65	POSE	.35	5.49	20.35	35
AGSM		.72	12.41	20.11	45	AGSP	1.07	16.81	62.21	95
POSE		1.28	22.07	35.76	85	POFE	.05	.78	2.91	5
POFE		.58	10.00	16.20	45	Grass Total	1.72	27.00	100.00	
Grass	Total	3.58	61.72	100.00						
5						COPA	.05	.78	1.08	10
ERPU		.12	2.07	5.41	20	ORFA	.02	.31	.43	5
PHHO		1.38	23.82	62.17	50	PHMU	2.31	36.30	49.68	20
COPA		.20	3.45	9.01	35	CAMI	.02	. 31	.43	5
ARHO		.30	5.18	13.51	35	РННО	.62	9.73	13.33	55
ASPU		.02	. 34	.90	5	HAAC	. 22	3.45	4.73	25
ASMI2		.02	.34	.90	5	PEN	.12	1.88	2.58	10
ASSP		.08	1.38	3.60	10	ARHO	.52	8.16	11.18	35
SEST		.02	.34	.90	5	ERPU	.38	5.97	8.17	55
CRAC		.02	. 34	.90	5	ASMI2	.25	3.92	5.38	50
UMB		.02	. 34	.90	5	ASPU	.02	.31	.43	5
OPPO		.02	. 34	.90	5	SEST	.02	.31	.43	5
MAGR		.02	. 34	.90		ASSP	.10	1.57	2.15	15
Forb '	Total	2.22	38.28	100.00		Forb Total	4.65	73.00	100.00	
UNDERST	TORY					UNDERSTORY				
TOTAL		5.80	100.00			TOTAL	6.37	100.00		

CHILD DISABLE EXCELOSURE

August 9, 1955

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Tran. F7 Outside Stock Exclosure ARNO JUOS Type North Exposure

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Outside

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			COPA			
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	Taron					

August 9, 1966

Tran. #9
Inside Stock Exclosure
ARTR Type
Northwest Exposure

Tran. #10
Outside Stock Exclosure
ARTR Type
Northwest Exposure

INSIDE

OUTSIDE

		Cover %	Comp. all Under.	Comp. by Group	% Freq.		Cover %	Comp. all Under.	Comp. by Group	% Freq.
ARTR Shrul	o Total	$\frac{13.12}{13.12}$			90	ARTR Shrub Total	3.65 3.65			50
CAFI POSE AGSM POFE	s Total	.10 2.08 2.00 <u>2.24</u> 6.42	1.16 24.13 23.20 25.98 74.47	1.56 32.40 31.15 34.89 100.00	85	AGSM POSE POFE Grass Total	1.18 1.74 1.28 4.20	18.10 26.69 19.63 64.42	28.09 41.43 30.48 100.00	100 95 50
CRAC CAMI CANU		.15 .40	1.74 4.64 .23	6.82 18.18	30 70 5	CRAC MAVI ERI #1 UNK #1 PHHO	.02 .05 .08 .05	.31 .77 1.23 .77 27.28	.86 2.16 3.45 2.16 76.71	5 5 15 10 75
PHHO TRI ERI UNK #1	L	1.26 .18 .05 .05	14.63 2.09 .58 .58	57.28 8.18 2.27 2.27	65 35 10 10	TRI CAMI ASSP UMB	.05 .12 .05 .02	.77 1.84 .77 .31	2.16 5.17 2.16 .86	10 25 5 5
BASA ASMI2 ARHO Forb	Total	.02 .02 .05 2.20	.23 .23 .58 25.53	.91 .91 <u>2.27</u> 100.00	5 5 5	UNK #2 Forb Total Understory Total	$\frac{.10}{2.32}$	$\frac{1.53}{35.58}$	4.31 100.00	10
Unders Total	story	8.62	100.00							

August 9, 1966

ry c Stock Exclosure Type west Exnosure

gran, gav Outside Stock Exclo-ARTS Type Northwest Exposure

RESTUR

OULRIBE

	. zabitu				
					Total
				.10	
		17 199			
				1.26	
			2,27		

POISON SPIDER EXCLOSURE

Number

ation

- 0105

1 Description

- R83W T33N SW4 NE4 Sec. 5

- 5800 ft.

- Natrona

tation Type

- Big sagebrush - Western wheatgrass

constructed

- 1965

ments

- None

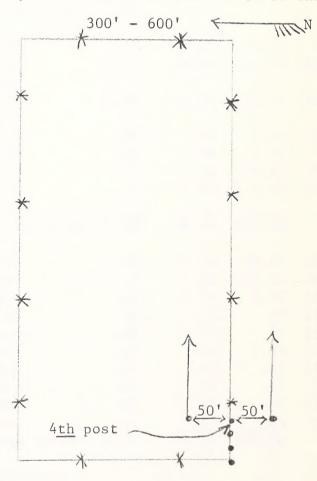
sects Established - 1965 - Inside, Outside

cal Location

- Go west of Gooseegg for .7 mile, turn right onto the main oil road and go west for 1.6 miles. Turn right onto another oil road for .5 mile. Cross the river and take the right fork on a main gravel road for 1.5

miles, take a right fork for 1.1 miles, take another right fork and continue north and west on improved gravel road for 3.4 miles to the oiled Poison Spider Road. Turn left and go by a school and continue for 9.7 miles, take a left fork for 1.5 miles, take a left fork,

continuing west for 1.0 miles, exclosure is .2 mile south of the road.



s Observed During 1965-1966

isia tridentata ia lanata othamnus viscidiflorus Lepidium densiflorum loua gracilis yron smithii ecunda

filifolia eleocharis ion hystrix comata ria cristata ca octoflora s tectorum ia polyacantha

Phlox hoodii Erigeron pumilus Plantago patagonica Sphaeralcea coccinea Chenopodium album Gilia leptomeria Descurainia pinnata Trifolium spp. Allium textile Lappula redowskii Plantago spinescens Arabis hoboellii

POISON SPIDER EXCLOSURE

July 20, 1965

INSIDE

		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover %	Comp. all Under.	Comp. by Group	% Freq.
EULA ARTR Shrub	Total	.80 5.65 6.45			30 35	EULA APTR CHVI Shrub Total	.15 12.17 .15 12.47			5 55 5
AGSM POSE CAEL		2.15 2.10	31.75 31.02	45.74 44.68	100 95	BRTE AGSM	.02	.15	.38	5 100
FEOC KOCR STCO		.10 .28 .07	1.48 4.14 1.03	2.13 5.96 1.49	20 15 10	BOGR POSE CAFI	1.68	12.49	32.31	80
BRTE Grass	Total		69.42	100.00		CAEL SIHY STCO	.20 .10 .75	1.48 .74 5.58	3.85 1.92 14.42	30 5 55
PLPA PHHO CHAL		1.10 .25 .15	16.23 3.69 2.22	53.12 12.08 7.25	90 20 30	KOCR FEOC Grass Total	5.20	$\frac{2.97}{38.66}$	7.69	15
GILE OPPO ALTE		.15 .15	2.22 2.22 .30	7.25 7.25 .97	25 5 5	ОРРО РННО	6.50 1.02	48.35	78.80 12.36	20 35
ERPU SPCO UNK #2		.05 .02 .08	.74 .30 1.18	2.42 .97 3.86	5 5 15	PLPA GILE UNK #2	.28	2.08	3.39 .97 .97	40 15 15 25
Forb 3		2.07	$\frac{1.48}{30.58}$	$\frac{4.83}{100.00}$		CHAL DEPI TRI	.12 .05 .02	.89 .37 .15	1.45 .61 .24	10 5
Underst Total	tory	6.77	100.00			SPCO LARE Forb Total	.02 8.25	$\frac{.15}{61.34}$.24 100.00	5
						Understory Total	13.45	100.00		

POLICE SPLONE EXCLOSING

anay 20, 1965

+		

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3.5								
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POISON SPIDER EXCLOSURE

August 22, 1966

INSIDE

	Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ARTR EULA Shrub Total	6.00 .65 6.65			45 25	ARTR EULA CHVI	7.20 .05			45 5 5
AGSM POSE	1.88	35.47 39.82	43.92 49.31	100	Shrub Total	THE RESERVE OF THE PARTY OF THE			
CAEL KOCR	.12	2.26	2.80	15	AGSM POSE	1.17 1.12	12.14 11.62	34.21 32.75	100 65
STCO SIHY	.05	.94	1.17	5	CAFI CAEL	.08	.83	2.34	15
FEOC BRTE	.12	2.26	2.80	25	SIHY STCO	.08	.83 7.26	2.34 20.47	10 65
Grass Total	4.28	80.75	100.00		KOCR FEOC	.25	2.59	7.31 .58	10 5
PLPA PHHO	.60	11.33	58.82 19.61	95 20	BRTE Grass Total	3.42	35.48	100.00	
OPPO SPCO	.15	2.83	14.71	5	OPPO	5.00	51.86	80.38	20
CHAL ERPU Forb Total	.02 .05 1.02	.38 .94 19.25	1.96 4.90 100.00	5 10	PHHO ERPU LEDE	1.00 .02 .02	10.37 .21 .21	16.08 .32 .32	40 5 5
Understory	1.02	19,43	100.00		PLPA SPCO	.10	1.04	1.61	20 10
Total	5.30				Forb Total	6.22	64.52	100.00	
11.00					Understory Total	9.64	100.00		

POISON SPIDER EXCEOSURE

August 22, 1966

				aureni				
p.c.		Cover E AvA		X TEG.	Comp. by Group	Comp. all		
							50.0	
		20.						
			IVEO					
						35.47		
	34.22		MEDA					
				15		2.25		
					100.001			
		50.						
						40.		
					00.001	19.25		
		80.						
		at 6.22						

RANKIN BASIN EXCLOSURE

- 1507 Number

- Hot Springs - R97W T46N

1 Description ation

tation Type

- Big sagebrush - Grass

e Constructed tments

- 1965 - None

sects Established - 1965 - Inside, Outside

ral Location

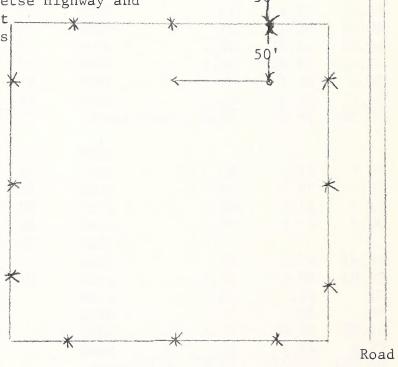
- Going to the exclosure from the south, turn off Meeteetse Highway just north of Grass Creek. .2 mile. Then take the fork to the north

line for 4.6 miles. Then take the trail for .8 mile to the exclosure. Going to

the Gooseberry Creek Road, turn south about 3 miles east of the Thermopolis-Meeteetse Highway and

about 4 miles west of the Hot Springs - Washakie County lines and travel south for 2 miles to the exclosure.

the Thermopolis-Go northeast for along the power to the northwest the exclosure from



ts Observed During 1965-1966

tia lanata

pyron smithii

eloua gracilis

eria cristata opsis hymenoides

tia polyacantha ula redowskii

nion hystrix

secunda

a comata

nisia tridentata Plantago patagonica

Machaeranthare tanacetifolia

Allium textile

Leptodactylon pungens Chenopodium album Lepidium densiflorum Sphaeralcea coccinea Erigeron pumilus Phlox hoodii

Descurainia pinnata Monolepis nuttalliana

RANKIN BASIN EXCLOSURE

June 23, 1965

INSIDE

	Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ARTR EULA Shrub Total	13.05 .30 1 13.35			30	ARTR EULA Shrub Total	4.65 .45 5.10			10 15
SIHY AGSM POSE BOGR ORHY STCO Grass Total	.65 .48 1.72 3.45 .10 .37 1 6.77	5.48 4.04 14.50 29.06 .84 3.12 57.04	9.60 7.09 25.41 50.95 1.48 5.47 100.00	45 55 55 60 5 30	SIHY AGSM POSE BOGR ORHY STCO Grass Total	.42 .70 1.32 2.25 .15 .13 4.97	4.97 8.28 15.62 26.62 1.78 1.54 58.81	8.45 14.08 26.56 45.27 3.02 2.62 100.00	30 80 50 60 5
OPPO ALTE LARE PLPA CHAL LEDE SPCO UNK Forb Total Understory Total	4.10 .05 .38 .25 .10 .15 .02 .05 5.10	34.54 .42 3.20 2.11 .84 1.26 .17 .42 42.96	80.39 .98 7.46 4.90 1.96 2.94 .39 .98	15 10 75 50 20 30 5	ERPU SPCO LEDE PLPA CHAL PHHO LARE DEPI MATA ALTE OPPO MONU Forb Total	.10 .08 .18 .32 .50 .38 .02 .02 1.75 _13 3.48	1.18 .95 2.13 3.79 5.92 4.50 .24 .24 20.70 1.54 41.19	2.87 2.30 5.17 9.20 14.37 10.93 .57 .57 50.29 <u>3.73</u> 100.00	15 15 35 60 85 70 5 5 15 25
					Understory Total	8.45	100.00		

RAMKIE BASIM EXCLOSURE

June 23, 1965

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		2.25						
		31.1		2				
			STCO					
	18.82		Grass Total	*.				faioT as
			1.1					
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			3034		34.1	13,20	86.	
			ASLES		08.4	2.11	.25	
			JAHO			84		
			PHHO	30	2.94			
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	20.70							
								racory
								*

RANKIN BASIN EXCLOSURE

June 24, 1966

INSIDE

	Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ARTR EULA Shrub Total	11.50 .20 11.70			25 5	ARTR EULA Shrub Total	6.20 .05 6.25			25 5
POSE AGSM SIHY BOGR STCO KOCR ORHY Grass Total	1.10 .92 1.05 2.93 .75 .02 .08	9.28 7.76 8.86 24.73 6.33 .17 .68 57.81	16.06 13.43 15.33 42.77 10.95 .29 1.17 100.00	75 55 45 60 25 5	AGSM SIHY BOGR POSE STCO Grass Total LARE PLPA	1.02 .18 3.80 1.27 .05 6.32	10.37 1.83 38.61 12.91 .51 64.23	16.14 2.85 60.13 20.09 .79 100.00 8.52 5.68	85 15 75 45 10
OPPO LARE PLPA MATA ALTE LEPU Forb Total Understory Total	4.76 .05 .10 .05 .02 .02 5.00	40.17 .42 .84 .42 .17 .17 42.19	95.20 1.00 2.00 1.00 .40 .40 100.00	5 5	LEPU OPPO MATA CHAL LEDE SPCO UNK #1 UNK #2 Forb Total Understory Total	.02 2.69 .02 .15 .05 .05 .02 .02 3.52	.20 27.35 .20 1.52 .51 .20 .20 35.77	.57 76.42 .57 4.26 1.42 1.42 .57 .57	5 25 5 25 10 10 5 5

NAMED SASTH EXCLOSURE

June 24, 1966

						9.28		
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	98,0			2 10				
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			CHAL		1,00			
					140			
35.77								
16.14 2.25 20.00 20.00 20.00 100.00 5.60 5.60 5.60 5.60 5.60 75 76.42 76.42 1.42 1.42	Comp. Comp. all by all by Under. Group 10.37 16.14 1.83 2.25 12.91 70.00 12.91 70.00 12.91 70.00 25.51 100.00 27.35 76.42 1.52 4.26	2 all by avg. Under. Group 6.20 .05 0.25 .102 10.37 16.14 .183 2.35 .184 1.83 2.35 .185 38.61 50.13 .177 12.91 20.00 .177 12.91 20.00 .178 2.51 70 .179 2.03 3.60 .20 2.03 3.60 .20 2.03 5.	Cover Comp. Comp. 2 all by Avg. Under. Group 6.20 1.02 1.02 1.037 1.83 2.85 1.83 2.85 1.87 1.87 1.91 2.60 3.61 3.61 3.61 3.61 3.62 3.62 3.62 3.62 3.62 3.62 3.62 3.63 3.63 3.63 3.64	Cover Comp. Comp. Ration Dy. ARTE	Cover Comp. Comp	Comp. Cover Comp. Comp	Comp. Comp. Comp. Comp. Comp. Comp.	Comp. Comp

SOUTH BUTTE EXCLOSURE

le Number

vation

- 2015

inty

- Washakie

al Description

- R89W T44N SE SW Sec. 7

- 5100 ft.

etation Type

– Big sagebrush – Grass

ce Constructed

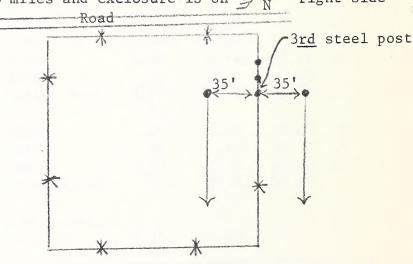
- 1966

- Spray 1966

msects Established - 1966 - Inside Spray, Outside Spray

eral Location

- From the outskirts of Worland travel 11.0 miles east toward Tensleep, turn right and go south for .7 mile to the old highway, turn left onto old highway and travel east for 6.0 miles and turn right onto the Bluebank Road and travel south (the Bluebank Road passes Bud Kimball Exclosure at 7.3 miles from the old highway) for 17.7 miles (10.4 miles south of Bud Kimball Exclosure) and turn right to west and drive by an old cabin and corrals and in 2.9 miles road parallels new fence, continue westward for 1.8 miles and exclosure is on \mathcal{J}_{N} right side of road.



its Observed During 1966 misia tridentata ierrezia sarothrae pyron spicatum opyron smithii secunda nus tectorum anion hystrix leria cristata ox hoodii ntia polyacantha pis acuminatus

SOUTH BUTTE

August 3, 1966

INSIDE SPRAY

OUTSIDE SPRAY

	Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ARTR Shrub Total	18.78 18.78			85	ARTR GUSA Shrub Total	$ \begin{array}{r} 18.30 \\ \underline{.15} \\ \hline 18.45 \end{array} $			75 5
SIHY	.08	1.70	1.71	15					
AGSP	.10	2.13	2.14	20	AGSP	.20	5.97	6.45	15
AGSM	.55	11.70	11.75	90	AGSM	. 58	17.31	18.71	90
POSE	3.95	84.04	84.40	90	POSE	2.30	68.66	74.19	95
KOCR					BRTE	.02	.60	.65	5
Grass Total	4.68	99.57	100.00		Grass Total	CONTRACTOR OF THE PARTY OF THE	92.54	100.00	
CRAC	.02	.43	100.00	5	РННО	.10	2.98	40.00	5
Forb Total	.02	.43	100.00		OPPO	.02	.60	8.00	5
					UNK	.13	3.88	52.00	25
Understory					Forb Total	.25	7.46	100.00	
Total	4.70	100.00							
					Understory				
					Total	3.35	100.00		

ATTUR REBOR

August 3, 1966

			INSIDE S
			the state of the same of the s

			***	region in sintribution gip at the	and the second s			
Cover X Avg.	v	Comp. all Under.		X , pa z T				
			1.71 2.14					
			21.75					
					BRIE Grass Total			
				5		.10 .02 .13		
					Forb Total		7.46	
						3.35	100.00	

STINKING CREEK EXCLOSURE

e Number

- 0106

- Natrona

al Description

- R80W T30N NW Sec. 7

vation

- 5800 ft.

etation Type ce Constructed - Sagebrush Grass

- July 1965

atments

- Contoured 1958, Sprayed June 10, 1965

msects Established - 1965 - Inside Spray Furrow, Inside NonSpray Furrow, Outside NonSpray

Furrow

eral Location

- At the junction of highway 487 (Medicine Bow Cutoff) and Highway 220, go west for 2.6 miles and turn south for 4.0 miles, turn left onto trail for .4 mile, cross bridge and go south for 4.1 miles and continue south for .3 mile on the Stinking Creek Road. Turn left for .2 mile to the exclosure. Can also get to the Stinking Creek Exclosure by turning off

Highway 487 about .2 mile south of the BLM sign (Bates Hole Resource Conservation Area). From this turnoff going northwestward, the exclo-Spray - Non Spray Tine sure is 4.3 miles. The BLM sign is 16 miles south of Highway 487-220 junction, and approximately 55 miles north of Medicine Bow. raı SPRAY 11th post 551

nts Observed During 1965-1966

emisia spinescens maeranthera glabriuscula emisia tridentata

iplex nuttallii emisia pedatifida opyron smithii

opyron cristatum opyron spp.

anion hystrix mus tectorum secunda

Stipa comata

Oryzopsis hymenoides Atriplex argentea Phlox hoodii Lesquerella spp. Lappula redowski Lappula texana Arenaria hookeri Descurainia pinnata Opuntia polyacantha Salsola kali

STINKING CREEK EXCLOSURE

July 20', 1965

Inside Non-spray Contour Furrowed

Outside Non-spray Contour Furrowed

INSIDE

										-
		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Avg.	Comp. all Under.	Comp. by Group	% Freq.
ARTR		12.25			55	ARTR	2.35			20
ATNU		10			0.5	MAGL	3.65			70
MAGL	1 . 4 . 1	.40			25	ATNU	1.45			25
Shrub T	otal	12.65				Shrub Total	7.45			
AGR		.85	14.45	38.64	80	AGR	1 25	22 50	6/. 10	0.5
POSE		1.02	17.35	46.36	50	POSE	1.25	23.58	64.10	95
SIHY			2.21	5.90	15		.58	10.94	29.74	35
ORHY		.13				SIHY	.10	1.89	5.13	15
		.10	1.70	4.55	5	STCO	.02	. 38	1.03	5
STCO	7	.10	$\frac{1.70}{37.41}$	4.55	5	ORHY	4 05			
Grass T	otar	2.20	37.41	100.00		Grass Total	1.95	36.79	100.00	
OPPO		.30	5.10	8.15	10	ATAR				
РННО		3.15	53.58	85.60	80	РННО	2.23	42.07	66.56	60
SAKA		.18	3.06	4.89	30	OPPO	1.00	18.87	29.85	5
LATE		.05	.85	1.36	10	SAKA	.02	. 38	.60	5
Forb To	tal	3.68	62.59	100.00		ARHO	.10	1.89	2.99	5
						Forb Total	3.35	63.21	100.00	
Understo	rv					2022 20002	0.00	00.21	200,00	
Total	-)	5.88	100.00			Understory				
						Total	5.30	100.00		

BUILDING CREEK STOLLOSURE

Jul. 23, 1965

o Mon-apray

Outside innestay

retuo 2

		Shrub Total			Intel du
				-85	
		0013			
					IsloT d

STINKING CREEK EXCLOSURE

July 20, 1965

Contour Furrowed

INSIDE SPRAY

	Cover % Average	Comp. all Under.	Comp. by Group	Percent Frequency	
ARTR MAGL ATNU ARSP Shrub Total	.20 .95 .70 .05			05% 45 15 05	
AGR	.50	13.82	33.33	50	
POSE	.73	20.17	48.67	45	
SIHY	.25	6.90	16.67	20	
ORHY Grass Total	1.50	.55 41.44	$\frac{1.33}{100.00}$	05	
PHHO Forb Total	$\frac{2.12}{2.12}$	58.56 58.56	100.00	70	
UNDERSTORY TOTAL	3.62	100.00			

STINKING CREEK ENGLOSURE July 20, 1965

ntone Purroued

INCIDE SPRAY

	4.014		
	Comp. ald. Under.	Comp. by Group	
70			
25	13.62 20.17 5.90 .35	13,33 48,67 16,67 1,33	
80 2.12 orb Total 2.12		100,00	

STINKING CREEK EXCLOSURE

June 27, 1966

Inside Non-spray Contour Furrow

Outside Non-spray Contour Furrow

INSIDE

% all by % % all Avg. Under. Group Freq. Avg. Under.	by Group	% Freq.
ARTR 10.15 60 ARSP		
ATNU MAGL 1.60 MAGL .10 20 ARTR 2.30		60 30
ARPE ATNU 1.25 Shrub Total 10.25 Shrub Total 5.15		30
AGCR .42 5.08 10.29 45 AGSM .90 13.92	36.74	60
AGSM .88 10.65 21.57 55 AGCR .85 13.14	34.69	30
POSE 1.93 23.37 47.31 55 AGR		
SIHY .38 4.60 9.31 30 SIHY .05 .77	2.04	10
STCO .05 .61 1.23 5 BRTE .05 .77	2.04	10
ORHY .20 2.42 4.90 10 POSE .60 9.27	24.49	60
BRTE .22 2.66 5.39 10 Grass Total 2.45 37.87	100.00	
Grass Total 4.08 49.39 100.00		
ATAR .02 .31	. 50	5
PHHO 3.68 44.56 88.04 85 PHHO 2.95 45.59	73.38	90
OPPO .22 2.66 5.26 10 LES .10 1.55	2.49	20
LARE .28 3.39 6.70 35 LARE .27 4.17	6.72	50
DEPI ARHO	1 00	
Forb Total 4.18 50.61 100.00 DEPI .08 1.24	1.99	15
OPPO <u>.60</u> <u>9.27</u>	14.92	5
Understory Forb Total 4.02 62.13	100.00	
Total 8.26 100.00		
Understory		
Total 6.47 100.00		

STUDENT CREEK ENCLOSURE

June 27, 1966

the Non-Spray

Durside Don-spray Contour Farrow

	3012	ruo									
							Gover Z Avg.				
			Shrub Total								
ās.āc	13,92										
			9304	55	21.52		88.				
				3.5							
		20%				00.4	BE.				
					DE. 2		22				
								IsjoT sas			
				85							
				0.0							
5.6 [
			Forb Total								

STINKING CREEK EXCLOSURE

June 27, 1966

Contour furrow

INSIDE SPRAY

	Cover % Average	Comp. all Under.	Comp. by Group	Percentage Frequency	
XAGSM	.22	5.53	6.32	25%	
XAGCR	.70	17.59	20.11	40	
XPOSE	2.06	51.76	59.20	70	
XAGR					
XSIHY	. 32	8.04	9.20	35	
XBRTE XORHY	.18	4.52	5.17	30	
Grass Total	3.48	87.44	100.00		
XLARE	.28	7.04	56.00	45	
XATAR XDEPI	.02	.50	4.00	5	
ХРННО	.20	5.02	40.00	5	
Forb Total	.50	12.56	100.00		
UNDERSTORY TOTAL	3.98	100.00			

STINKING CRIEK EXCLOSURE

June 27, 1966

DOLLING THE LOAD

INSIDE SPRAY

	Comp. by Group	Comp. all Under.		
	6.32 20.11 59.20	5.33 17.39 51.78		
		8_04 4,52		
				Intol Bear
			.20	

UPPER ENOS CREEK EXCLOSURE

Number

- 1508

inty

vation

- Hot Springs

al Description

- R100W T46N NE SW NE Sec. 31

- 6900 ft.

etation Type

- Big sagebrush - Grass

ce Constructed

- 1966

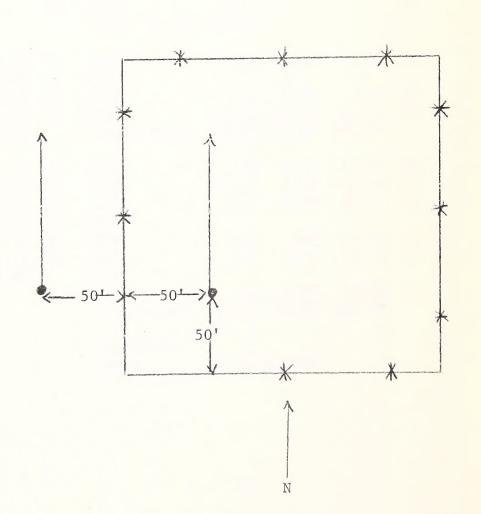
atments

- Spray 1964

msects Established - 1965 - Inside Spray, Outside Spray

eral Location

- From Town of Grass Creek travel about 4 miles westward on the Dickey Road to the junction of the Grass Creek Road, follow Dickey Road for 2.1 miles to junction with Enos Creek Road, turn left and travel southwest for .6 mile and take right fork, continue for .2 mile and cross Enos Creek, continue southwest for 5.6 miles to LU Juniper study area, continue on Enos Creek Road for 2.3 miles to exclosure.



nts Observed During 1965-1966

liperus scopulorum Antennaria rosea lemisia tridentata Achillea lanulosa Cerastium arvense pa viridula Androsace occidentalis topyron smithii Taraxacum officinale stuca idahoensis Potentilla gracilis eleria cristata Iris missourinsis topyron spp. Arabis holboellii a spp. rostis scabra Arnica fulgens

Phlox hoodii

geron spp.

tex spp.

UPPER ENOS CREEK EXCLOSURE

August 12, 1965 Spray

July 12, 1965 Spray

INSIDE

	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.
JUSC ARTR (Dead) ARTR Shrub Total	3.75 42.40 .05 46.20			05% 90 10	JUSC ARTR (dead) ARTR Shrub total	5.0 37.45 .17 42.62			05% 90 15
AGR CAR	1.28	13.59 1.06	19.10 1.49	95 15	AGR CAR	.80	10.06	11.64	90
UNK	5.30	56.27	79.11	100	FEID	.15	1.89	2.18	05
FEID	.02	21	.30	05	UNK	5.92	74.47	86.18	100
Grass Total	6.70	71.13	100.00		Grass Total	6.87	86.42	100.00	
ACLA	.40	4.25	14.71	45	ACLA	.28	3.52	25.92	25
ARFU	.18	1.91	6.62	35	ARFU	.15	1.88	13.89	25
CEAR	1.05	11.15	38.60	35	ARHO2	.25	3.14	23.15	25
ANRO	.77	8.17	28.31	15	CEAR				
ARHO2	.20	2.12	7.35	30	TAOF	.05	.63	4.63	05
TAOF	.12	1.27	4.41	10	ANRO	. 20	2.52	18.52	20
Forb Total	2.72	28.87	100.00		POGR				
					РННО	.15	1.89	13.89	05
UNDERSTORY					Forb Total	1.08	13.58	100.00	
TOTAL	9.42	100.00							
					UNDERSTORY TOTAL	7.95	100.00		

BE 12, 1965

July 12, 1965 Spray

				i peri			Cons. hy Groups	
C R (Dead) R rub Total				05% 90 10	JUSC ARTR (dead) ARTR ShruS total			
77	1.28 .10 5.30		19.10 1.49 79.11	100 15 95	AGA RAD ULTER			
ass Total			00.001					
A U B O O	.40 1.05 1.77	8:25 11.15 11.15 8.17			ACLA ARTU ARTOZ CEAR TAOF			
P cb Total ERSTORY	2.72				ANKO POGR. PUHO Porb Total	20	15,32 15,39 100,00	
JAT					VAOTERSTORY			

UPPER ENOS CREEK EXCLOSURE

July 26, 1966

Spray	INSIDE				Spray	OUTSID	OUTSIDE					
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq			
JUSC ARTR Shrub Total	3.75 .10 3.85	•		5% 15	JUSC ARTR Shrub Total	5.00 .45 5.45			5% 35			
STVI AGSM FEID KOCR AGR POA AGSC CAR	.08 .70 .05 1.32 .08 1.63	1.50 13.13 .94 24.76 1.50 30.58	2.06 18.04 1.29 34.02 2.06 42.01	15 95 5 85 15 100	AGSM KOCR STVI AGR POA FEID CAR UNK #1	.35 3.51 .70 1.35 .10 .02	4.93 49.44 9.86 19.01 1.41 .28 .28	5.78 58.03 11.57 22.31 1.65 .33 .33	55 85 90 50 5 5			
Grass Total ERI ANRO ACLA CEAR ANDC TAOF POGR TRMI Forb Total	.02 .20 .51 .15 .42 .08 .05 .02	72.79 .38 3.75 9.57 2.81 7.88 1.50 .94 .38	1.38 13.79 35.17 10.34 28.97 5.52 3.45 1.38	5 15 45 25 60 15 10 5	Grass Total ACLA ANRO TAOF POGR ARHO2 ANDC ERI Forb Total UNDERSTORY	6.05 .28 .20 .10 .02 .10 .30 .05	3.94 2.82 1.41 .28 1.41 4.23 .70 14.79	26.67 19.05 9.52 1.90 9.52 28.58 4.76	45 10 20 5 5 5 10			
UNDERSTORY TOTAL	5.33	100.00			TOTAL	/.10	100.00					

UPPER ENOS CHEEK EXCLOSURE

July 26, 1966

	3		Spray			yay
		00.2				0.0
		24		15		E1
						InyoT dirit
	4,93					17
						102
					40.	(1)
						500
						9
						38
	85.					3
			Grass Total			issoT sant
						3
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						R.A
						0.0
						90
						M
						I
						LegoT due

UPPER GRASS CREEK EXCLOSURE

e Number

- 1509

nty

- Hot Springs

al Description

- R101W T45N SW NE SE Sec. 14

vation

- 7250 ft.

etation Type

- Big Sagebrush - Grass

ce Constructed

- 1966

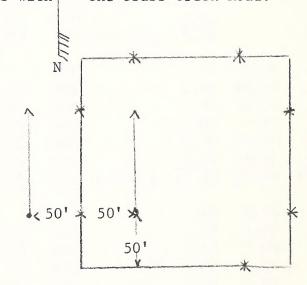
atments

- Spray 1963

msects Established - 1965 - Inside Sprayed, Outside Sprayed

eral Location

- Travel from Grass Creek westward about 4 miles to the junction of the Grass Creek Road and the Dickey Road. Go southwestward for 5 miles on the Grass Creek Road and take the right fork following Grass Creek. At 5.2 miles the road passes the LU Cow Camp. Continue westward for .5 mile to another corral, continue westward for 2.9 miles. The exclosure is about 100 yards above the road at the fork of the Raspberry and Cottonwood Creek roads with the Grass Creek Road.



nts Observed During 1965-1966

emisia tridentata emisia frigida

iperus scopulorum

us flexilis pa comata ex spp.

tuca idahoensis leria cristata perochloa kingii fendleriana

secunda opyron spp. ochortus spp.

ostis exarata ox hoodii

rosace occidentalis

ennaria rosea mis drummondii Campanula rotundifolia

Oxytropis sericea

Lupinus spp. Potentilla spp. Arenaria hookeri Vicia americana Taraxacum officinale Achillea lanulosa Agoseris glauca

Cerastium arvense Erigeron pumilus Pinus flexilis

Chrysothamnus viscidiflorus

UPPER GRASS CREEK EXCLOSURE

August 28, 1965

Sp	ray
----	-----

Spray

	INSIDE					OUTSIDE				
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.	
ARTR (dead) ARTR ARFR Shrub Total	16.15 .02 .20 16.37			70% 05 45	ARTR (dead) ARTR Shrub Total	21.10 .02 21.12			70% 05	
FEID AGR	.90 1.25	6.77 9.40	9.36 12.99	45 85	FEID AGR HEKI	.25 1.18 .30	2.16 10.20 2.59	2.42 11.43 2.91	10 90 05	
HEKI CAL UNK	.47 .32 4.58	3.53 2.41 34.43	4.89 3.33 47.60	35 40	CAL UNK KOCR	.02 5.30 3.27	.17 45.82 28.26	.19 51.36 31.69	05 95 95	
KOCR Grass Total	<u>2.10</u> 9.62	$\frac{15.79}{72.33}$	<u>21.83</u> 100.00		Grass Total ANRO	10.32	89.20	100.00	25	
ANRO OXSE LUP	.45 .43 1.12	3.38 3.23 8.43	12.23 11.68 30.45	30 50 30	OXSE LUP PHHO	.20	1.72 1.04 .69	16.00 9.60 6.40	30 15 10	
PHHO POT	.45 .28	3.38 2.11	12.23 7.61	30 35	POT TAOF	.12	1.04 1.73 1.04	9.60 16.00 9.60	15 20 25	
TAOF ARHO VIAM	.35 .08 .02	2.63 .60 .15	9.51 2.17 .54	30 15 05	ARHO VIAM UNK	.12	.43	4.00 2.40	10 05	
Forb Total	3.68	$\frac{3.76}{27.67}$	13.58 100.00	_ 05	ACLA CHVI LYDR	.05	.43	4.00	10	
UNDERSTORY TOTAL	13.30	100.00			AGGL Forb Total	1.25	10.80	<u>4.00</u> 100.00	10	
					UNDERSTORY TOTAL	11.57	100.00			

WERT CRASS CRUEK EXCLOSURE

August 28, 1965

						Asidg
					Comp.	
						ARTH (dead)
						RTHA
			lstoT			REER
						Shruh Total
						GISS
		DE.				SIGN
						DESIG
						JAU
						20072
						HOOM
						Grass Total
	35.7					0
						ORMA
						LUP
						700
						OHRE
						709
						TOAT
						OHTA
						MAIV
						TAIA
						Total Total
						THOTERSTORY
						LATOI

UPPER GRASS CREEK EXCLOSURE

August 23, 1966

Spray		Spray
	INSTDE	

	Cover	Comp.	Comp.	%			Cover	Comp.	Comp.	%
	%	all	by	Freq.			%	all	by	Freq
	Ave.	Under.	Group				Ave.	Under.	Group	
ARTR	.02			5%	ARTR		.10			15%
ARFR	.23			15	ARFR		.05			5
JUSC					Shrub	Total	.15			
PIFL	1.50			5						
Shrub Total	1.75				CAR		.22	2.21	2.74	40
					FEID					
STCO	.25	2.29	3.16	10	KOCR		1.55	15.55	19.33	95
CAR	.82	7.52	10.38	45	HEKI		.30	3.01	3.74	10
FEID	.55	5.05	6.96	30	POFE		2.76	27.67	34.42	80
KOCR	1.68	15.43	21.27	100	POSE		1.55	15.55	19.33	70
HEKI	.48	4.40	6.08	40	AGR		1.10	11.03	13.71	90
POFE	.82	7.52	10.38	45	CAL		.22	2.21	2.74	25
POSE	1.50	13.76	18.99	80	AGEX		.22	2.21	2.74	15
AGR	1.20	11.01	15.19	95	STCO		.10	1.00	1.25	5
CAL	.52	4.77	6.58	75	Grass	Total	8.02	80.44	100.00	
AGEX	.08	.73	1.01	10						
Grass Total	7.90	72.48	100.00		ACLA		.05	.50	2.56	5
					РННО		.31	3.11	15.90	25
РННО	.40	3.67	13.33	25	ANOC		.28	2.81	14.36	55
ANOC	.48	4.40	16.00	95	ANRO		.25	2.51	12.82	25
ANRO	.60	5.50	20.00	35	LYDR		.12	1.20	6.15	25
LYDR					CARO					
CARO					OXSE		.31	3.12	15.90	40
OXSE	. 32	2.94	10.67	40	LUP		.22	2.21	11.28	40
LUP	.75	6.89	25.00	40	POT		.08	.80	4.10	15
POT	.25	2.29	8.33	40	ARHO		.08	.80	4.10	15
ARHO					VIAM		.02	.20	1.03	5
VIAM	.08	.73	2.67	15	TAOF		.12	1.20	6.15	25
TAOF	.10	.92	3.33	20	AGGL		.02	.20	1.03	5
UNK	.02	.18	.67	5	CEAR		.05	.50	2.56	5
Forb Total	3.00		100.00		ERPU		.02	.20	1.03	5
					UNK		.02	.20	1.03	5
UNDERSTORY TOT	AL				Forb	Total	1.95	19.56	100.00	
	10.90	100.00								
					UNDERS	TORY				
					TOTAL		9.97	100.00		

UPPRE GRASS CREEK EXCLOSURE

Amurat 13, 1966

					- 44-08	05.001	
				IE.			
				.25			
			LYDR	.12			
		\					
	00.001				02.		

UPPER LEFT HAND CREEK EXCLOSURE

Number - 1510

vation

atments

- Hot Springs

- R100W T46N NW NW SW Sec. 12 al Description

- 6180 ft.

etation Type - Big sagebrush - Grass - Juniper

- June 1965 ce Constructed

- None

nsects Established - 1965 - Inside, Outside

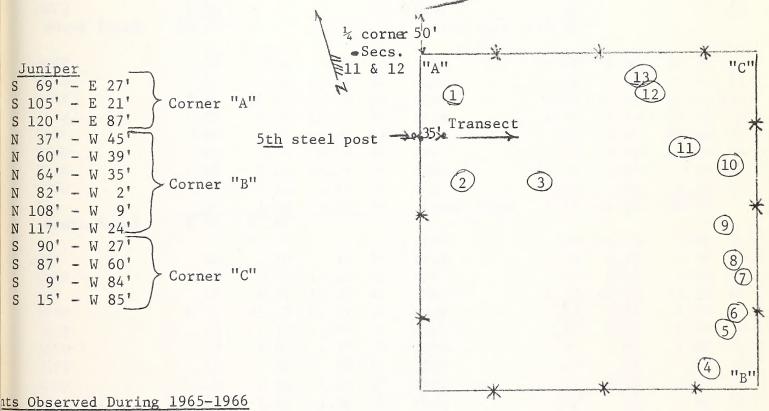
eral Location - From the junction of Highway 120 and the Gooseberry Road, go northwestward for 4.0 miles. Turn left for 4.9 miles on the road to Dickey.

left for .2 mile, traveling directly toward Dickey on a dirt road, then

turn right and go westward along Left Hand Creek for 4.8 miles to the

Transect

exclosure.



emisia tridentata Potentilla gracilis emisia frigida Vicia americana Erigeron pumilus ierrezia sarothrae tuca idahoensis

Penstemon spp.

Chrysothamnus viscidiflorus

Androsace occidentalis Calochortus nuttallii Tragopogon dubius Hymenoxys acaulis Lepidium densiflorum

Allium textile

Plantago patagonica

Astragalus missouriensis

Arenaria hookeri phanomeria tenuifolia Astragalus purshii

> Arabis spp. Poa compressa

tropis spp. astium arvense

axacum officinale

inus spp. ox hoodii

spp.

secunda

opyron spp.

pa comata

opyron smithii

leria cristata

opyron spicatum

ex filifolia

ex eleocharis

ochortus spp. ennaria rosea

UPPER LEFT HAND CREEK EXCLOSURE

INSIDE

August 12, 1965

OUTSIDE

	2110202					COIDID					
	Cover % Ave.	Comp. all Under.	by	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group.	% Freq.		
ARTR	12.15			50%	GUSA	.10			05%		
GUSA	.25			05	ARTR	10.37			65		
ARFR	1.50			40	ARFR	.85			35		
Shrub Total	13.90				Shrub Total	11.32					
AGSP	.45	2.29	5.35	50	AGSM	1.08	6.30	15.10	65		
AGSM	.15	.76	1.78	20	AGSP	.18	1.05	2.52	25		
POSE	2.35	11.98	27.96	95	POSE	2.05	11.95	28.66	100.		
KOCR	1.88	9.58	22.35	90	KOCR	1.40	8.16	19.58	90		
CAEL	.42	2.14	4.99	55	STCO	1.62	9.45	22.66	70		
STCO	1.42	7.23	16.88	80	CAL	.32	1.87	4.48	45		
FEID	1.20	6.11	14.27	30	CAEL	.35	2.04	4.90	55		
POCO	.22	1.12	2.62	20	POA	.15	.87	2.10	10		
CAL	.32	1.63	3.80	40	Grass Total	7.15	41.69	100.00			
Grass Total	8.41	42.84									
					ALTE	.28	1.63	2.80	05		
OXY	.02	.10	.18	05	CEAR	.50	2.92	5.00	20		
CEAR	1.40	7.13	12.48	35	LUP	.57	3.32	5.70	45		
LUP	1.18	6.01	10.52	40	ANRO	6.90	40.23	69.00	65		
ANRO	6.90	35.17	61.51	40	TAOF	.27	1.57	2.70	35		
TAOF	.22	1.12	1.96	30	ERPU	. 57	3.32	5.70	•		
ERPU	.20	1.02	1.78	30	РННО	. 18	1.05	1.80	20		
CHVI	.10	.51	.89	05	LEDE	.08	.47	.80	15		
РННО	.48	2.44	4.28	30	ANDC	. 20	1.17	2.00	35		
ANOC	.22	1.12	1.96	45	PLPA	.08	.47	.80	15		
CANU	.02	.10	.18	05	ARA	.02	.12	.20	05		
TRDU	.05	. 25	. 44	10	ASMI	.05	.29	.50	10		
HYAC	.18	.92	1.60	10	STTE	.10	.58	1.00	20		
STTE	.10	.51	.89	15	ARHO	.08	.47	.80	15		
LEDE	.10	.51	. 89	20	ASPU	.10	.58	1.00	05		
PEN	.05	.25	.44	_ 05	TRDU	.02	.12	.20	_ 05		
Forb Total	11.22	57.16	100.00		Forb Total	10.00	58.31	100.00			
UNDERSTORY					UNDERSTORY	W					
TOTAL	19.63	100.00			TOTAL	17.15	100.00				

HOPER LINE HAND CHEEK EXCLOSURE

August 12 1965

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UPPER LEFT HAND CREEK EXCLOSURE

August 3, 1966

	INSIDE	SIDE					OUTSIDE				
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.		
ARTR	6.00			55%	ARTR	13.70			60%		
ARFR	.58			40	ARFR	. 65			35		
GUSA	.10			5	GUSA	.55			10		
Shrub Total	6.68	a Syrade			Shrub Total	14.90					
FEID	.72	6.53	10.11	30	FEID	.10	.96	2.69	5		
POA	3.36	30.50	47.20	65	STCO	.02	.19	.54	5		
POSE	2.15	19.51	30.19	55	POA	.52	5.01	13.98	20		
AGSM	. 15	1.36	2.11	30	POSE	.80	7.71	21.50	75		
AGR	. 15	1.36	2.11	25	AGR	.40	3.86	10.75	75		
STCO	.05	. 45	.70	10	AGSM						
KOCR	.32	2.90	4.49	35	KOCR	1.03	9.94	27.69	85		
CAFI	.22	2.00	3.09	35	CAFI	.85	8.20	22.85	70		
Grass Total	7.12	Control of the last of the las	100.00	-	Grass Total	3.72	35.87	100.00			
ANRO	2.31	20.97	59.24	35	OXY	.10	.96	1.50	5		
TAOF	.10	.91	2.56	20	РННО	.25	2.41	3.76	35		
OXY	.02	.18	.51	5	CEAR	.35	3.38	5.26	30		
CEAR	.40	3.63	10.26	45	ANRO	5.21	50.25	78.36	65		
LUP	.28	2.54	7.18	25	ERPU	.50	4.82	7.52	50		
РННО	.28	2.54	7.18	20	TAOF	.12	1.16	1.80	25		
POGR	.02	.18	.51	5	VIAM	.02	.19	.30	5		
VIAM	.02	.18	.51	5	LUP	.10	.96	1.50	20		
UNK #2	.05	.45	1.28	5	Forb Total	6.65	64.13	100.00			
ERPU	.40	3.63	10.26	35							
PEN	.02	.18	51	_ 5	UNDERSTORY						
Forb Total	3.90	35.39	100.00		TOTAL	10.37	100.00				
UNDERSTORY											
TOTAL	11.02	100.00									

UPPER LEFT HAMD CREEK EXCLOSURE

August 3, 1966

) 1577				y Freq.	Comple	Comp. all Under.		
(17)				See				
11							88.	
1.0								
				30.				
7			STCO			30,50		
0.85			AOS		30.19 2.11			
2								
51					2.11	1.36		
					DV.			
7.5					2.11 .70 4.49			
117								
		Total						
$\bar{\xi}^{\dagger}$								
24								
00								
65								
0.5								
2.5								
8								
0.5								
							.02	
							9.90	

WORLAND CATTLE COMPANY EXCLOSURE

NE NE Sec. 8

le Number

- 2016

unty

al Description

- Washakie - R92W T45N

evation

- 4400 ft.

getation Type

- Big Sagebrush - Cactus - Grass

ace Constructed

- 1966

eatments

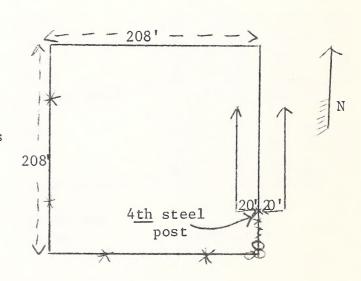
- None

ansects Established - 1966 - Inside, Outside

meral Location

- Go south out of Worland on Nowater Road for 2.9 miles, turn left at Kootis Stockyards and go east for .2 mile, turn right and go south for 1.4 miles and cross irrigation canal, continue southward for 2.8 miles and cross east fork Nowater River, continue southward for 2.3 miles to the exclosure which is about 50 yards NE of the road.

y 15, 1966 Note - Very sandy soil, sagebrush small and depauperate. Cactus and cheatgrass very abundant.



ints Observed During 1966 emisia tridentata: 1 secunda iteloua gracilis mus tectorum stuca octoflora untia polyacantha pula texana



WORLAND CATTLE CO. EXCLOSURE

July 25, 1966

	INSIDE					OUTSIDE				
	Cover % Ave.	Comp. all Under.	Comp. by Group	% Freq.	under under verwar neuer in eine Prefer Gestriff ver Ausstag und ver Ausst	Cover. % Ave.	Comp. all Under.	Comp. by Group	% Freq.	
					ARTR Shrub Total	2.02			10%	
ARTR Shrub Total	2.60			10%	BRTE FEOC BOGR	.75 .62 1.05	18.12 14.98 25.35	27.57 22.79 38.61	100 95 45	
BRTE POSE FEOC	.92 .18	14.42 2.82 9.40	27.22 5.33 17.75	85 15 65	POSE Grass Total	30 2.72	7.25	11.03 100.00	20	
BOGR Grass Total	1.68 3.38	26.34	49.70	70	PLPA LATE OPPO	.22 .30 .90	5.31 7.25 21.74	15.49 21.13 63.38	45 50 15	
OPPO PLPA LATE	2.46 .32 .22	38.55 5.02 3.45	82.00 10.67 7.33	25 60 45	Forb Total UNDERSTORY	1.42	34.30	100.00		
Forb Total UNDERSTORY	3.00	-	100.00	,,,	TOTAL	4.14	100.00			
TOTAL	6.38	100.00								

MORLAND CATTLE CO. EXCLESURE

A CALL

Jaly 25; 1966

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			a a dati.	greq.		Comp. all Under,	
			ARTE Shrub Total				
		eţ.	BRTE				
j			FEOC BOER POSS		33.VK	14.42	
	65.70	21.75	Istol anaro		13.75	2.62	
			PLPA LATE. OPPO		49.70		

